

# Colorado Environmental Performance Partnership Agreement

## FY2016 End-of-Year Assessment

An Assessment of Environmental Accomplishment and Challenges for the Period of October 1, 2015 through September 30, 2016

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Colorado Department of Public Health & Environment

U.S. Environmental Protection Agency Region 8



**COLORADO**  
Department of Public  
Health & Environment



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## 1.0 Introduction to the End-of-Year Assessment

The Colorado Environmental Performance Partnership Agreement (CEPPA) is an agreed-to plan between the Colorado Department of Public Health and Environment and Region 8 of the Environmental Protection Agency to address environmental issues and problems in Colorado. It reflects commitments made by both agencies to environmental management.

The CEPPA document:

- 1) Defines the roles of the Colorado Department of Public Health and Environment (CDPHE) and Region VIII EPA;
- 2) Identifies the overall priorities for environmental protection in Colorado; and,
- 3) Describes what the state and federal environmental program efforts will be to protect air, water and the land.

The FY2016-2017 CEPPA includes work plans (environmental health/sustainability, air, water, and waste) funded, in part, from the Performance Partnership Grant (PPG) as a part of the comprehensive environmental program plan for Colorado. The purpose of this report is to describe the program accomplishments for the grant period from October 1, 2015 through September 30, 2016.

This report also is intended to fulfill the requirement of the PPG program grant awarded to the state by EPA for an end-of-year assessment. This was conducted during the period of November through December 2016 by the CDPHE Environmental Programs. Areas assessed include all program activities and accomplishments for all media. This report will be used, along with other guidance, as part of the ongoing PPA update process.

This report is intended to provide an overview of the progress of environmental management in addressing air, water and waste issues in Colorado.

This assessment was completed by CDPHE program staff and to some degree by EPA Region 8. This assessment is part of the continuing cycle of interagency planning and implementation to address the major environmental concerns in Colorado.

## 2.0 Division of Environmental Health and Sustainability FY2016 Status and Accomplishments

### Sustainability Unit

Strategic Focus Area: Funding

### Supplemental Environmental Projects

**Supports EPA 2014-2018 Strategic Goals** - Goal 1: Addressing Climate change and Improving Air Quality; Goal 2: Protecting America's Waters; Goal 3: Cleaning up Communities and Advancing Sustainable Development; Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution.

Goals	Objectives	Timeline	FY2016 Status and Accomplishments
Support and advise Cross-Media Enforcement Team (CMET) on SEP related issues.	Review SEP and Eligible Governmental Entity policies annually and make recommendations to CMET as needed.	Annually	Policies reviewed: 1 (Health Equity & Environmental Justice Compliance and Enforcement Guidance) CMET meetings held: 0
Increase efficacy and efficiency of SEP program.	As requested by environmental divisions: coordinate directly with regulated entities to: present SEP policy and assist in finding appropriate SEP ideas; analyze and evaluate SEP proposals; track project progress and interim deadlines; and review SEP Completion Reports.	Ongoing	SEP proposals evaluated: 10 Finalized 10 SEP agreements totaling \$724,103.55 SEP Completion Reports reviewed: 9
	Administer SEP idea database and Sharepoint site; develop and administer the department's SEP website; develop SEP Report to track environmental outcomes from SEPs.	Ongoing	New SEP ideas included in database: 6 Hits on SEP website: 942 Annual SEP Report posted on website: in-progress Environmental and public health outcomes from SEPs are tracked using an internal Sharepoint site and available at any time upon EPA request.
Increase community awareness of and access to the SEP program.	When appropriate, partner with regulated entities to implement a community SEP process.	Ongoing	# of times a community SEP Process was used: 0 (No settlements of \$500,000+ in 2016) # of SEP applications received: n/a # of SEP applications approved: n/a

	Create best management practices for implementing community SEP process.	September 2016	Guidelines developed, approval in-progress
	Present to local public health agencies, non-profits, and community groups on SEPs.	Ongoing	# of entities reached: 3

## Sustainability Unit

Strategic Focus Area: Funding

### Medication Take-Back Program

Supports EPA 2014-2018 Strategic Goals - Goal 2: Protecting America's Waters; Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution.

Goal	Objectives	Timeline	FY2016 Status and Accomplishments
Reduce pharmaceuticals in the environment (PIE).	Execute new services contract for the Colorado Medication Take-Back Program to include collection of prescribed controlled substances. Continue program operation and expand its reach to include at least one law enforcement collection location in every Colorado county.	Ongoing	<p>Signed services contract: Contract with Assured Waste Solutions signed and effective 05/23/16. New contract allows for collection of prescribed controlled substances at law enforcement agencies, retail pharmacies, and hospitals/clinics with on-site pharmacies.</p> <p>Pounds of medications collected: 10,420 pounds collected in program pilot project (non-controlled drugs only) during FY2016. Pilot project ended 06/30/16.</p> <p># of locations added: No new program locations added during FY2016. Extensive program expansion occurring in FY2017 with all sites able to collect prescribed controlled substances.</p> <p># of citizen inquiries: Responded to 238 citizen inquiries regarding household medication disposal.</p>

	Engage stakeholders and develop Take-Back Program rules for consideration and adoption by the Solid and Hazardous Waste Commission.	May 2016	Rules adoption by Commission: Program rules adopted by the Solid and Hazardous Waste Commission on 05/17/16.  # of stakeholder meetings: 5 rules development stakeholder meetings held.
	Assist with the problem identification and outreach efforts surrounding PIE.	Ongoing	# of stakeholders contacted: None # of projects initiated: Other than expanding the medication take-back program, no PIE projects initiated.

## Sustainability Unit

Strategic Focus Area: Funding

### State Grant & Rebate Programs for Waste Diversion and Pollution Prevention

Supports EPA 2014-2018 Strategic Goals - Goal 1: Addressing Climate change and Improving Air Quality; Goal 3: Cleaning up Communities and Advancing Sustainable Development; Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution.

Goals	Objectives	Timeline	FY2016 Status and Accomplishments
Administer the P2 Grants Program from the state P2 Fund.	Assist and support PPAB in grant review and selection process.	Annually	# of new projects awarded: 5 # of new sponsorships awarded: 4 Amount awarded: \$47,623 Amount expended: \$25,515.88
	Provide technical assistance to grantees. Track project progress and outcomes.	Annually	Environmental benefits of completed P2 grants are reported in project final reports and available on request.

Assist and support PPAB and the Assistance Committee in implementation of the Colorado Recycling Resources Economic Opportunity Grant Program.	Assist in the development of criteria for grants. Announce grant solicitation and assist in the application evaluations.	Annually	Grant criteria developed and approved Grant announcements made:3 (Hub &Spoke, Recycling Regional Planning and End-Market Analysis, Phase 1)
	Support grant recipients and track project performance, make project results available to the public.	Ongoing	Projects completed:8 Results and final grant reports, including environmental benefits and jobs created, are available to public on website.
RREO Rebate Program	Assist in the development of criteria for rebates and announce rebate solicitation.	Annually	Criteria Developed # of rebates applications approved: 38 Total funding awarded: \$381,150

## Sustainability Unit

Strategic Focus Area: Outreach and Technical Assistance

## Pollution Prevention Program (for additional detail, see final 2016 EPA P2 Grant Report)

**Supports EPA 2014-2018 Strategic Goals** - Goal 1: Addressing Climate change and Improving Air Quality; Goal 2: Protecting America's Waters; Goal 3: Cleaning up Communities and Advancing Sustainable Development; Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution.

Goals	Objectives	Timeline	FY2016 Status and Accomplishments
Create cooperative partnerships among businesses, the environmental community and the department through which technical assistance,	Provide on-site P2 Technical Assistance	Ongoing	5 facilities visited 3 food manufacturers visited

outreach and education activities are coordinated and conducted.	Provide Outreach, training and workshops on P2 and sustainability concepts	Ongoing	3 training events held 360 participants
	Develop outreach materials and a Colorado-specific case study on an innovative P2 technique.	Ongoing	3 outreach materials developed 850 people reached
Integrating P2 concepts into department regulatory programs.	Coordinate with department inspectors to distribute P2 sector-based information and make P2 referrals	Ongoing	27 inspectors trained 15 P2 referrals made
Increase employee engagement in sustainability activities.	Hold CDPHE-wide Cherry Creek Cleanups along the creek designated for CDPHE.	Fall & Spring 2016 and 2017	75 employees and partners participated

## Sustainability Unit

Strategic Focus Area: Outreach and Technical Assistance

### SARA Programs

Supports EPA 2014-2018 Strategic Goal - Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution.

Goals	Objectives	Timeline	FY2016 Status and Accomplishments
Effectively and efficiently implement the EPCRA/SARA Title III TRI and Tier II programs including all associated databases.	Receive and enter TRI (using the Exchange Network) and Tier II data from Colorado businesses (currently 15,444 facilities; 5,140 chemicals).	Annually TRI - July Tier II - March	Process improvements accelerated Tier II validation and processing by 6 months. Single-reporting implemented - reports are received by CDPHE and shared with state and local emergency planning committees. Improved outreach efforts decreased late



			<p>reporters to less than 5%.</p> <p>New Colorado required fields added for Tier II.</p> <p>All Tier II reports were received electronically for the first time due to improved outreach.</p>
	Develop & maintain the TRI/Tier II database.	Ongoing	Tier II and TRI databases are maintained.
	Assess SARA (P2) fees, generate and mail bills, monitor payments and follow-up with unpaid accounts.	Annually	<p>RY 2015 fees assessed and invoiced. Process improvements accelerated invoices by 4 months.</p> <p>\$149,445 total amount of fees assessed</p> <p>927 bills sent</p>
	Review state required fields for electronic reporting of Tier II reports using EPA Tier2Submit software. Updated as needed.	Annually	State fields reviewed with the Colorado Emergency Planning Committee (CEPC) and updated in Tier2Submit
Provide information on program internally, and to public and facilities.	Respond to inquiries regarding Tier II and TRI reporting and payment requirements from Colorado businesses.	Ongoing	Responded to all inquiries received in a timely manner.
	Respond to inquiries on information to the public and appropriate parties.	Ongoing	3 public requests for Tier II data were fulfilled
	Consult with Health Equity & Environmental Justice Data Workgroup as requested.	Ongoing	Datasets reviewed for HE & EJ use
	Generate chemical inventory reports for electronic transmittal to appropriate parties (LEPCs, CEPC, EPA, Records Center, EMP).	Complete	Tier II reports provided to the CEPC, LEPCs, and fire departments. TRI developed using Colorado data from 2003 through 2014 and available online.

## Sustainability Unit

Strategic Focus Area: Outreach and Technical Assistance

### Small Business Ombudsman

**Supports EPA 2014-2018 Strategic Goals** - Goal 1: Addressing Climate change and Improving Air Quality; Goal 2: Protecting America's Waters; Goal 3: Cleaning up Communities and Advancing Sustainable Development; Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution.

Goals	Objectives	Timeline	FY2016 Status and Accomplishments
Represent Colorado at the national and regional level as CDPHE's Small Business Ombudsman.	<p>National: Serve on the 507 Programs national Steering Committee or various subcommittees (includes monthly conference calls, annual meeting and providing relevant materials related to CO's program).</p> <p>Solicit comments on new/modified regulations from the small business community through CO's Compliance Advisory Panel (CAP) and provide to the national Steering Committee for submittal to EPA.</p> <p>Regional: Maintain connection to WY, MT and Utah's 507 Programs (includes inviting them to CAP meetings and sharing information)</p>	Ongoing	<p>SBO participated on four national subcommittees</p> <p>Activities completed include: Reviewed small business, trade assn, small business program and Lifetime achievement award nominations, assisted with comments on several regulation reviews, participated in small business webinars.</p> <p>Contributed information to SBAP/SBO/CAP's Annual report submitted to NSC (National Steering Committee) this year.</p> <p>Invitations to CO CAP extended to WY, MT &amp; UT.</p> <p>Responded to requests and made requests for info from MT, WY, CA, HI, IL, KS and PA programs.</p>
Provide and track assistance provided to Colorado's small businesses.	<p>Refer small businesses to technical resource in the Small Business Assistance Program (SBAP) and other Sustainability Unit programs (such as RREO, P2, ELP, etc).</p> <p>Send small businesses customer assistance evaluation surveys to gauge value of SBAP and provide summaries to CAP, SBAP &amp; EPA.</p>	Ongoing	<p>Approximately 1200 emails sent or responded to</p> <p>Over 40 requests referred to SBAP or others at department</p> <p>193 SBAP evaluation surveys sent. Responses were compiled and shared. SBAP services ranked excellent by most respondents.</p>
Serve as a resource for small businesses.	Serve as an impartial resource for small businesses that have complaints or concerns about fair treatment by the environmental divisions. (includes reaching out to environmental divisions at CDPHE)	Ongoing	<p>12 businesses assisted with compliance/enforcement actions</p> <p>Met with staff in APCD, WQCD, PPAB, NRCS, NOAA and CSU to work on agricultural and small business practices.</p>

Serve as a resource for small businesses. (continued)			Outcomes of assistance efforts include: businesses report better understanding of regulations and environmental compliance requirements
	Review SBAP guidance documents and provide comments to SBAP prior to issuance.	Ongoing	4 guidance documents reviewed
	Provide training and outreach on tools available for small businesses and the assistance available through SBAP.	Ongoing	At least 12 small businesses specifically reached
	Review SBO web page for improvements	Sept 2016	Revised web to include new Neighborhood Connects! Program Information
Support and coordinate the Compliance Advisory Panel.	Assist in ensuring the Compliance Advisory Panel is an effective resource for small businesses and CDPHE.	Ongoing	3 CAP meetings held 11 presentations provided to the CAP on various activities/programs/guidance documents 4 new members provided orientation/training

## Sustainability Unit

Strategic Focus Area: Outreach and Technical Assistance

### Greening State Government Initiative

**Supports EPA 2014-2018 Strategic Goals** - Goal 1: Addressing Climate change and Improving Air Quality; Goal 2: Protecting America's Waters; Goal 3: Cleaning up Communities and Advancing Sustainable Development; Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution.

Goals	Objectives	Timeline	FY2016 Status and Accomplishments
Administer Greening Government Program to reduce environmental impacts from state operations.	Participate as a lead state agency in implementing Greening Government programs and activities.	Ongoing	Annual report compiled on Greening Government projects that were completed during FY16.
	Attend and participate in regular meetings of Greening Government Coordinating Council.	Ongoing	12 of meetings attended

	Establish an internal greening government team to increase employee engagement.	Ongoing	Team established with 72 participating members
	Identify targets and objectives for annual Greening Government Projects.	Ongoing	Setting Targets and Objectives and report results at the end of FY2015
	Implement projects to meet targets and objectives.	Ongoing	Fuel Use reduced by 4%; Signed up for new Solar Garden subscription for Summitville Mine site.
	Provide assistance to other state agencies.	Ongoing	# of agencies provided assistance
	Report on projects and efforts.	Ongoing	Maintain Greening Government intranet website Results communicated to employees through daily broadcast, presentations and intranet updates.
Encourage, award, and educate the use of sustainability practices throughout Colorado.	Provide education and training to business, state and local government, and employees on sustainability practices.	Ongoing	See Pollution Prevention and Environmental Leadership Program Results.

## Sustainability Unit

Strategic Focus Area: Environmental Recognition

### Environmental Leadership Program (for additional detail, see final 2016 EPA P2 Grant Report)

Supports EPA 2014-2018 Strategic Goals - Goal 1: Addressing Climate change and Improving Air Quality; Goal 2: Protecting America's Waters; Goal 3: Cleaning up Communities and Advancing Sustainable Development; Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution.

Goals	Objectives	Timeline	FY2016 Status and Accomplishments
Encourage organizations to go beyond compliance to achieve significant environmental benefits by providing	Plan and hold an annual awards and recognition event for new and renewing ELP members.	Annually each October	400 attendees

meaningful incentives and recognition.	Expand membership in the Bronze, Silver and Gold levels of ELP in order to further P2 activities and increase environmental benefits.	Ongoing	15 new gold leaders 2 EMS assessed 19 renewing gold leaders 14 new silver partners 27 new bronze achievers 2 new food manufacturers
	Promote the ELP by providing ELP presentations to internal divisions, businesses, and other organizations.	Ongoing	3 of internal presentations 5 of external presentations 280 Total number of participants 2 ELP referrals from state and local employees 2 new members as a result of internal referral
Provide EMS technical assistance and P2 education and training to ELP members and potential members.	Promote the adoption of EMSs to environmental programs and state agencies by holding EMS training events.	Ongoing	1 EMS training events 80 new companies applying to the ELP as a result
	Provide technical assistance and gap analysis for potential ELP members.	Ongoing	2 facilities provided assistance
	In partnership with Colorado Environmental Partnership, provide P2 and sustainability education and training to businesses, government, and department employees.	Ongoing	3 educational events held 200 participants
Provide additional member services, mentoring and reporting.	Provide mentoring opportunities.	Ongoing	2 mentoring opportunities provided
	Develop general guidance for ELP members on how to measure, track and reports metrics	Ongoing	169 companies receiving guidance Improved data quality and understanding of calculating metrics
	Survey ELP members to obtain environmental results from implementation of improvement projects.	Annually by October 1	86% survey responses collected



Collaborative.			and shared with staff and EPA.
	Review EJ-related documents/policies, collaborate with department staff on EJ projects or efforts (obtain information from EPA, community newsletters, contacts).	Ongoing	Comprehensive HE/EJ policy to guide CDPHE programs and activities approved July 1, 2016. Guidance documents are currently being developed, anticipated completion by April 2017. Reviewing comments to establish improved engagement processes for regulatory reviews.

## Sustainability Unit

Strategic Focus Area: Collaboration

### Self Audit Law

Supports EPA 2014-2018 Strategic Goals - Goal 5: Protect Human Health & the Environment by Enforcing Laws & Assuring Compliance.

Goals	Objectives	Timeline	FY2016 Status and Accomplishments
Maintain the Self-Audit Policy and partner with EPA.	Abide by the Memorandum of Agreement and the EPA Self-Audit Policy.	Ongoing	17 entities submitting Self-Audit Requests
Maintain internal contacts with each CDPHE division.	Coordinate Self-Audit submittals to appropriate divisions	Ongoing	15 Closed Self-Audit requests 30 Open Self-Audit requests
Continue to expand, enhance and update the Self-Audit website.	Provide access to information as appropriate	Ongoing	# of internet hits - available on request.

## Sustainability Unit

Strategic Focus Area: Collaboration

### Cross Media and Emerging Environmental Initiatives

**Supports EPA 2014-2018 Strategic Goals** - Goal 1: Addressing Climate change and Improving Air Quality; Goal 2: Protecting America's Waters; Goal 3: Cleaning up Communities and Advancing Sustainable Development; Goal 4 Ensuring the Safety of Chemicals and Preventing Pollution.

Goals	Objectives	Timeline	FY2016 Status and Accomplishments
Assist in the coordination of CDPHE innovations and cross-media approaches and strategies.	Coordinate regular Cross-Media Innovation and Strategy Team (CMIST) meetings to discuss cross-media opportunities and projects. Discuss emerging contaminants and other emerging environmental issues.	Ongoing	<p># of meetings held: No large group meetings held during FY16, although coal tar asphalt sealant subcommittee meetings were held to advance the production of web-based FAQ's and letters to local public health officials.</p> <p># of CDPHE staff participating in CMIST efforts: 10 staff involved in coal tar asphalt effort.</p> <p># of projects identified: No new projects identified during FY16.</p> <p>Outcomes of projects: CDPHE's Prevention Services Division agreed to lead the coal tar asphalt sealant public awareness effort. Materials are expected to be produced in FY17.</p>
Streamline and integrate enforcement policies and guidance in a consistent manner across the department.	Participate in the Cross-Media Enforcement Team.	Ongoing	<p># of meetings held</p> <p>Outcomes of meetings</p>
Reduce mercury in the environment.	Explore opportunities for mercury reduction and recycling programs.	Ongoing	No projects initiated during FY2016.



## Sustainability Unit

Strategic Focus Area: Collaboration

### Agriculture Pollution Prevention Initiative

**Supports EPA 2014-2018 Strategic Goals** - Goal 1: Addressing Climate change and Improving Air Quality; Goal 2: Protecting America's Waters; Goal 3: Cleaning up Communities and Advancing Sustainable Development; Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution.

Goals	Objectives	Timeline	FY2016 Status and Accomplishments
Coordinate the Rocky Mountain National Park (RMNP) Agricultural Subcommittee.	Coordinate meetings of the subcommittee and interested stakeholders.	Ongoing	4 meetings held
	Develop incentives to promote implementation of ammonia reduction best management practices (BMPs).	Ongoing	Incentives recommended and/or implemented include: Air Quality EQIP practices, zeolite inclusion in NRCS BMPs, crop grower incentive program, ELP award for implementing BMPs.
	Develop outreach materials to educate agricultural producers on agriculture's contribution to nitrogen deposition in RMNP. Plan for at least two Ag Outreach seminars in 2016-2017	Ongoing	Distributed information on Early Warning System through RMNP Ag Subcommittee, presentations from producers to committee members. Producers reached: Corn & wheat growers, beef, dairy and hog producers, various Ag associations and Environmental Ag Program newsletters.
	Coordinate with CSU and other partners to assure continuous ammonia monitoring and science-based information is reported back to the committee.	Ongoing	Two summaries on continuous ammonia monitoring provided to subcommittee
	Seek resources (grants) to support BMP research, outreach, monitoring, etc.	Ongoing	Funds for Continuous Ammonia Monitoring project were committed Outcomes of ammonia-related projects unknown at this time.
	Participate in contingency plan measures updates, if applicable.	Ongoing	# of contingency measures developed and actions taken to implement measures: Not applicable at this time.

Serve as lead on NRCS Air Quality Committee	Work to implement recommendations from the crop and livestock sectors into NRCS conservation programs, including AQ & WQ practices.	Ongoing	Recommendations made to the NRCS State Technical Committee: AQ BMP areas designated, WQ areas designated.
	Work with USDA Natural Resources Conservation Service to promote ammonia reduction BMPs.	Ongoing	AQ and WQ BMPs with potential to impact the park were promoted to producers.
Increase compliance assistance and pollution prevention information to agriculture sector.	Provide outreach and interpretation to livestock producers on applicable solid waste and industrial waste water requirements.	Ongoing	10 producers received assistance on cross-cutting issues such as composting.
	Coordinate communication within environmental divisions on issues impacting agriculture. (biofuels, land application of sludges, composting, P2, etc.) Assist Ag industry with cross-cutting technologies.	Ongoing	APCD, WQCD and DES staff participated in multiple Ag Subcommittee meetings. No specific requests made on cross-cutting tech.

## Environmental Agriculture Program

### Animal Feeding Operation (CAFO, HCSFOS, AFO) Programs

Supports EPA 2014-2018 Strategic Goals Goal 2: Protecting America's Waters; Goal 5: Protecting Human Health and the Environment by Enforcing Laws and Assuring Compliance

Subgoals	Objectives	Timeline	FY2016 Status and Accomplishments
<b>CAFO REGULATIONS</b> Implement state- water quality regulatory programs specific to animal feeding operations (AFOs), concentrated animal feeding operations (CAFOs) and housed commercial swine feeding operations (HCSFOs) as appropriate.	Improve sector compliance through the development of effective water quality protection regulations that are in compliance with federal and state statutes and rules.	As necessary, update and implement state CAFO regulations to address CAFOs that are impacting water quality, or to reflect changes made to the federal CAFO rule.	Revise applicable state CAFO regulations within one year of the effective date of applicable federal rules.  100% consensus with all stakeholders on proposed regulatory revisions prior to the final state rulemaking hearing before the Colorado Water Quality Control Commission.
<b>CAFO PERMITS</b> <u>Permit CAFOs</u> in accordance with applicable federal and state regulatory requirements and deadlines.  <u>Reporting of permitted CAFO data</u> to EPA.	<ul style="list-style-type: none"> <li>• Certify permitted CAFOs under Colorado CAFO general permit no. COA 932000.</li> <li>• Permit any new discharging CAFOs in accordance with applicable federal and state regulations.</li> <li>• Enter all data requirements on permitted CAFOs into ICIS, including the required elements of the approved Nutrient Management Plan.</li> <li>• Participate as appropriate in quarterly meetings with EPA to discuss progress towards meeting annual permitting and enforcement commitments.</li> </ul>	On-going  Within 180 days of receipt of complete application.  Mid Yr by April 30 EOY by Oct. 31  Quarterly, as scheduled	# of permitted CAFOs recertified under COA 932000. <b>0</b>  # of new CAFOs certified under permit COA 932000. <b>8</b>  % of permitted CAFOs entered into ICIS. <b>100%</b>





## Environmental Health

### Regulatory Uniformity

Supports EPA 2014-2018 Strategic Goals Goal 2: Protecting America's Waters; Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution; Goal 5: Protecting Human Health and the Environment by Enforcing Laws and Assuring Compliance

Subgoals	Objectives	Timeline	FY2016 Status and Accomplishments
Provide inspectional oversight to schools in rural areas.	Regulatory inspections performed in counties without local public health agencies under the jurisdiction of the department.	Ongoing	Percentage of schools with chemical laboratories inspected at least once during the performance period.  100% of schools with chemical laboratories were assessed at least once during the performance period through field inspection.
Provide training and assistance to state and local public health personnel to assure uniformity in the application of the new school regulation.	Train school inspection program staff of local organized county health department through joint regulatory school inspections and by providing technical assistance.	FY 2016	Complete 6 joint regulatory school inspections and provide technical assistance as necessary to assure competency by local public health agency in program administration by end of performance period.  A total of 9 joint regulatory school inspections were completed with school inspection program staff of local organized county health departments during the performance period. Technical assistance was provided to school inspection program staff of local organized county health departments on a routine basis throughout the performance period.

Provide training and assistance to state schools to assure uniformity in the application of the new school regulation.	<p>Coordinate the development and implementation of a classroom training course for school teachers and school personnel in county without local public health agencies under the jurisdiction of the department.</p> <p>Assist with the coordination and development of regulation training sessions for school teachers and school personnel in local public health agency jurisdiction.</p>	FY 2016	<p>Successful implementation of 1 school regulation training session for school teachers and school personnel in county without local public health agencies under the jurisdiction of the department.</p> <p>See below.</p> <p>Successful implementation of 5 school regulation training sessions for school teachers and school personnel in local public health agency jurisdiction.</p> <p>A total of 4 regulation training sessions for school teachers and school personnel in local public health agency jurisdiction were provided on October 26, November 4, November 12, and December 3. The 5th planned training session was cancelled by the partner local public health agency due to low attendance.</p>
Increase uniformity of school regulation implementation and school inspection program administration.	Develop program standards to assure regulatory uniformity for school inspection programs administered by local public health agencies statewide.	FY 2016	<p>Development of framework for school program standards for school inspection programs within local public health agencies.</p> <p>The development of program standards is ongoing.</p>

### 3.0 Air Pollution Control Division FY2016 Status and Accomplishments

#### APCD Goal 1: Achieve a level of air quality that protects and preserves human health

Sub-goals include:

- Attain and maintain National Ambient Air Quality Standards
- Protect citizens from exposures to toxic air pollutants

EPA 2014-2018 Strategic Plan:

- Goal 1: Addressing Climate Change and Improving Air Quality
- Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution (Reduce Children's Blood Lead Levels)
- Goal 5: Protecting Human Health and the Environment by Enforcing Laws and Assuring Compliance

Program Strategy	Activity	Milestone/Measure	FY2016 Status and Accomplishments
<b>MOBILE SOURCE PROGRAMS</b>			
1.1 Operate Automobile Inspection and Readjustment (A.I.R.) Program and Clean Screen Program - Regulation No. 11	Operate A.I.R. program in Denver metro and North Front Range areas.	Ongoing	A.I.R. Program inspected 884,000 vehicles during the fiscal year. In addition to the vehicles inspected at vehicle emissions inspection centers, 311,000 vehicles were identified as being clean screen eligible using remote sensing. Of these vehicles, 223,000 vehicles completed the clean screen process. More information on the A.I.R. Program may be obtained through



			the annual IM report.
	Integrate North Front Range IM Program into state ozone SIP	Work with Policy and Planning, RAQC, and AQCC	AQCC incorporated the North Front Range area into Colorado's ozone SIP during a hearing on November 17, 2016. Preparation of hearing materials and proposal was conducted during the fiscal year.
	Ensure that the A.I.R. program in Denver metro and North Front Range areas is consistent with and continues to meet all SIP requirements.	Ongoing	Program met all SIP requirements.
	Inspector training/certification maintained.	Ongoing	Mobile Sources Program continues to emphasize inspector training. Inspector certifications and training continues to be evaluated and updated.
	Data collection and processing systems maintained.	Ongoing	On an ongoing basis, data collection and processing system have been maintained. Data for the IM Program can be seen in the appendices of the annual IM report.
	Support field enforcement activities by Dept. of Revenue.	Ongoing	Mobile Sources has supported Department of Revenue enforcement activities this past fiscal year. More detail may be obtained through the annual Inspection/Maintenance Program report, specifically in the Department of Revenue section.
	Monitor program quality and performance.	Ongoing. Annual report developed each year.	Annual A.I.R. Program report released to public in July 2016. The completed report may be accessed

			at the APCD web site, see <a href="https://www.colorado.gov/pacific/sites/default/files/AP_Colorado_2015_IM_Annual_Report_FINAL.pdf">https://www.colorado.gov/pacific/sites/default/files/AP_Colorado_2015_IM_Annual_Report_FINAL.pdf</a> .
	Provide support to customers, inspectors, auto entities and repair technicians.	Ongoing	Mobile Sources Program conducted various outreach programs such as “Tech nights” for the repair industry.  In association with CDPHE, the state’s contractor maintains outreach programs that include public service radio ads. Further information is located on their and CDPHE’s websites.  Staff responded to customer, repair technician, and automotive industry inquiries on an ongoing basis.
1.2 Operate Diesel Inspection and Self-certification Program - Regulation No. 12 (State only)	Similar operation and training measures as A.I.R. Program.	Ongoing	Operation of the Diesel Opacity Inspection and Fleet Self-Certification programs is ongoing.  Mobile Source Program implemented a new data handling process to facilitate the electronic transfer of diesel test results to the Department of Revenue. This update will allow diesel motorists the ability to utilize online renewal process.  Inspector Handbook has been updated and revised to meet current program requirements.
	Work with our counterparts at the regional and local levels to support the Colorado Clean Diesel Program. Continue to	Ongoing	Continuing to work with regional and local partners in support of the Colorado Clean Diesel Program.

	implement best practices as part of the Colorado Diesel Self-Certification Program.		Emphasis has been placed on best practices for large Self-Cert fleets. Implementation of new data handling process allowing diesel motorists the ability to utilize an online renewal process, has been implemented as stated above.
	Support legislative and/or regulatory changes that permit the use of OBD or other innovative IM diesel tests that may be used to supplement or replace the current diesel test methods.	Track and respond to diesel bills in the legislature. Modify Regulation No. 12 as needed.	Continued following technologies that may be used to supplement or replace the current diesel test methods. Supported bill to allow enforcement measures against tampered diesel vehicles that emit excessive smoke emissions. Bill was not passed this legislative session.
1.3 Develop and participate in mobile source air quality improvement strategies	Contribute to and engage in new ozone SIP developments.	Ongoing	Participated in the development of modifications to the ozone SIP.
	Participate in RAQC's Mobile Source/Fuels subcommittee. Assist and contribute to the formation and development of mobile source SIP strategies. Provide technical support and analysis on potential mobile source strategies, conduct vehicle emissions modeling in behalf of SIP activities, and provide guidance on various potential fuel strategies.	Ongoing	Contributed to the RAQC's Mobile Source/Fuels subcommittee. Gave presentation on the ramifications of adopting California LEV standards. Conducted technical support through mobile source modeling.
	Track, research, and advise senior management on legislative activities in support of new SIP development.	Ongoing	Provided senior management with updates throughout the SIP development process.
	Develop modifications to AQCC Regulations as needed. Present proposed modified regulations to the AQCC for their consideration.	Ongoing	Modified AQCC Regulation number 11 to incorporate the North Front Range area into the existing ozone SIP. Modified AQCC Regulation

			Number 12 to allow diesel emissions inspection stations to electronically transmit vehicle inspection data.
	Implement any necessary SIP strategies.	Ongoing	Maintained the North Front Range inspection program, to permit its transition from a state-only program to its inclusion into the Ozone SIP.
	Continue remote sensing activities	Ongoing	There were 311,000 vehicles that were identified as being clean screen eligible through the use of on-road remote sensing. More than 223,000 vehicles of these vehicles completed the clean screen process. The proportion of the fleet observed through remote sensing continues to meet SIP requirements
	Implement and continue smoking vehicle programs.	Ongoing	The smoking vehicle hotline is maintained to identify excessively smoking vehicles. Smoking vehicle owners are notified that their vehicles may not be in compliance with state statutes. Tech center assistance available for motorists with problem vehicles.
	Participate in Regional Air Quality Council programs.	Ongoing	Participated in the RAQC's mobile source/fuels subcommittee, as part of the development of the ozone SIP. This included providing mobile source emissions modeling, evaluation of California's LEV emissions standards, as well as other technical support.

	Continue to review auditor A.I.R. Program recommendations. Make changes to IM Program as needed.	Ongoing	Auditor's recommendations have been adopted and have taken effect. Expanded model year exemption (seven years) and the On-Board-Diagnostic testing have been successfully implemented by the IM program since 2015.
	Conduct public outreach, with emphasis on the newly implemented IM program.	Ongoing	Mobile Sources Program continues to conduct public outreach with its Emissions Technical Centers and website, along with activities such as "Tech Nights".  The state contractor, Envirotest, in cooperation with CDPHE, maintains outreach programs that include public service radio ads, with further information located on their and the CDPHE's websites.
	Contribute area-wide assessment of RVP levels, and other gasoline parameters, as part of Ozone SIP development.	Ongoing. Conduct Summer and Winter gasoline surveys.	Staff reported on winter and summer gasoline fuel assessments. 166 samples were collected and analyzed this summer, with 144 samples collected and analyzed this past winter.  Measurements on fuel volatility, percent ethanol and sulfur content were conducted.
	Utilize MOVES model in SIP planning and mobile source air quality assessment activities. Continue participation in model improvement and development activities.	Ongoing	Utilized MOVES2014a modeling in support of the Division's emissions inventory development. Assisted RAQC with the ozone SIP development by providing mobile source modeling inputs.

	Monitor Federal Renewable Fuels Program.	Ongoing	Staff follows the latest developments, including the new renewable fuels program requirements for the forthcoming year.
	Monitor federal new Tier 3 vehicle emissions certification, GHG, and CAFÉ rules. Continue to contrast federal rules to California's LEV program, including the use of zero emitting vehicles.	Ongoing	Staff continues to track EPA and CARB rules that generally harmonize future emissions, fuel economy and GHG emission standards. Contributed to the RAQC's mobile source/fuels subcommittee with an analysis and presentation on California's LEV program.
	Examine the use of remote sensing to identify vehicles with high evaporative emissions.	Conducting research.	Mobile Sources Program is in the preliminary stages of developing a research project focusing on the ability of utilizing remote sensing to assist, as one component, in the detection and repair of high evaporative emission vehicles. This project is a joint effort with the Regional Air Quality Council.
	Continue OBD effectiveness study.	Conducting research.	Continue to assess effectiveness of OBD on an ongoing basis.
	Conduct vehicle OBD deterioration study. Study examines vehicle emissions deterioration in OBD equipped vehicles.	Conducting research.	The OBD deterioration study continues to be a study of importance for the mass emissions testing facility.
1.4 Support mobile source	Provide mobile source emission inventories and emission factors.	Ongoing	The EPA's MOVES2014a emissions model continues to be utilized for the development of new mobile

strategies through technical studies and operation of testing equipment and facilities			source inventories and emission factors.
	Operate and maintain Technical Centers.	Ongoing	Emissions Technical Centers continue to assist motorists with free vehicle inspections. Advice to motorists and the repair industry is ongoing.
	Operate and maintain mass emissions testing facility.	Ongoing	<p>The Division's mass emissions testing facility continues to support mobile source and SIP activities through motor vehicle mass emissions testing.</p> <p>Several ongoing research projects are being conducted including vehicle deterioration, and the use of remote sensing to detect excess vehicle evaporative emissions.</p> <p>Laboratory is scheduled for an extensive upgrade in the coming year.</p>
	Conduct an analysis of Colorado fuel market including: volatility, ethanol content, market status and other parameters	Ongoing	<p>Analysis of Colorado fuel market was completed. There was generally good compliance with regulatory standards.</p> <p>Summer fuel volatility averaged 8.6 psi RVP this summer, with last winter's averaging 13.5 psi RVP.</p> <p>All samples contained ethanol at approximately 10% level for both seasons.</p>
	Contribute to division inventory report of actual annual emission data.	Ongoing	Mobile Sources Program continues to provide technical input to the Division's development of annual emission data.

STATIONARY SOURCE PROGRAMS			
1.5 Conduct activities of the Construction Permits Program for stationary sources	Issue permits to minor sources in Colorado.	Number of minor source permits issued	4,714 minor source permits issued. (Reporting methodology changed to include individual permits, general permit coverages and exemption evaluations as minor source permitting actions)
	Issue synthetic minor permits to applicable sources in Colorado.	Number of synthetic minor permits issued	229 synthetic minor source permits issued.
	Issue PSD permits.	Number of PSD permits issued	No PSD permits were issued.
	Issue permits to major sources in nonattainment areas.	Number of NAA NSR permits issued	No NAA NSR permits were issued.
	Enter RACT/BACT/LAER determinations in EPA's clearinghouse database (RBLC) within 30 days following permit issuance, including the "application acceptance date" and "date of permit issuance."	Data entered on a continuing basis	RBLC entries were made on an ongoing basis.
	Prepare AIRS data entry and forward to Inventory Group.	Ongoing	AIRS data prepared and forwarded to Inventory Group on an ongoing basis.
	Track PSD increment periodically to meet the requirement of 40 CFR 51.166(a)(4).	Ongoing	PSD increment periodically tracked on an ongoing basis.
1.6 Conduct activities of the Operating Permits Program for stationary sources	Ensure sources submit Title V applications for renewal.	Monitored throughout the year.	Ensured that subject sources submitted Title V applications. Worked with these subject sources through both the permitting and field inspection programs.
	Prepare AIRS data entry and forward to Inventory Group.	Ongoing	AIRS data prepared and forwarded to Inventory Group on an ongoing basis.
	Continue development of program with EPA guidance (Part 70) and input from affected parties.	Ongoing	Program development continues on an ongoing basis consistent with EPA guidance and informed by input from affected parties.
	Continue to issue proposed, initial, renewal, and modified Title V permits.	Ongoing	Issued proposed, initial, renewal, and modified Title V permits. Hired



			and trained additional permit engineers.
	Prepare and submit TOPS data to the Region for entry into EPA's national database.	Ongoing	Prepared and submitted TOPS data to EPA Region 8 for entry into national database.
	Address recordkeeping and information request requirements.	Ongoing	Recordkeeping requirements addressed through Title V permits and information requests are responded to on an ongoing basis.
	Coordinate with EPA on petitions for Title V permits.	Ongoing	Coordinated with EPA as needed on any Title V permit petitions or EPA orders.
1.7 Operate stationary source emissions and facility data system	Utilize the Exchange Network to transfer the Emissions Inventory System information.	Ongoing	Emissions inventory is transferred on an annual basis using the Exchange Network.
	Participate in ongoing training provided on National Emission Inventory.	Ongoing	The Inventory & Support team participates in all webinars and training opportunities provided.
<b>Compliance and Enforcement Program:</b>			
1.8 Develop regulations and strategies to support compliance with regulations	Continue to evaluate methods to incorporate P2 into regulations and permits.	Ongoing	P2 is considered during control strategy development efforts and permitting regulation development and review.
	Provide support and training to engineers and inspectors (policy interpretation, settlement documents, assist in negotiation of settlements, enforcement data base).	Ongoing	Support and training provided as needed.
	Revise NSR and PSD regulations as needed.	Ongoing	NSR and PSD regulations are revised pursuant to federal requirements.
	Revise Reg. 6 - New Source Performance Standards.	Annual - Ongoing	Federal NSPS were reviewed. Revisions and new rules were adopted into Regulation 6 as necessary.

	Revise Reg. No. 8 Parts A & E incorporating MACT and NESHAP rulemaking updates and development of cooperative federal/state work plan. To include: funding options; addressing 112(j) compliance deadlines; development and implementation of area source rules; development of information; incorporation of pollution prevention where appropriate; and analyses regarding air toxics.	Annual - Ongoing	Federal MACT and NESHAP were reviewed. Revisions and new rules were adopted into Regulation 8 as necessary.
	Revise Common Provisions, Regulation 1, Regulation 3, Regulation 4, Regulation 7 regulations to maintain an updated SIP or in response to EPA SIP disapproval actions.	Ongoing	Common Provisions, Regulation 1, 3, 4, and 7 are revised as necessary.
1.9 Continue oversight of local health department contracts and inspections	Negotiate contracts annually.	Local agency contracts follow the state fiscal year (July 1 through June 30).	Contracts for State FY'16-'17 were in place prior to July 1, 2016.
1.10 Conduct compliance inspections and evaluations for industrial sources (major and minor) and final approval evaluations. Report information to EPA through the ICIS-Air Database.	Inspection review, assistance as needed, enter reports on ICIS-AIR, maintain tracking logs, monitor quarterly reports.	Ongoing	Compliance and enforcement activities ongoing; reports are reviewed and entered into ICIS-AIR as they are received, assistance is provided to local agencies as needed and upon request, monthly and quarterly reports are maintained to track local agency activity per contracts
	Ensure proper certifications (odor & opacity) in place for local agency staff.	Ongoing	Contracts require agency staff attend and obtain opacity and odor certifications. Division does periodic spot checks of certification status.
	Operating and other final permits reviewed.	Ongoing	Ongoing
	Conduct final approval evaluations for facilities.	Ongoing	Sources are required to submit a "self-certification" for compliance

			with initial approval permits; Division reviews all of the required documents before approving the permit for “final approval”
	Perform stack testing, source audits and CEM certifications.	Ongoing Number of stack tests Approximately 600+ tests conducted per year. Number of relative accuracy test audits Approximately 75 RATAs conducted per year	471 stack tests conducted during EPA FY’16 (on a per unit basis; test may have been for one or multiple pollutants). 126 RATAs conducted and reviewed during EPA FY’16
	Evaluate excess emission reports.	Ongoing	EERs are submitted on a quarterly basis and are reviewed in detail following submittal.
	Provide ICIS-AIR updates as necessary through:	Ongoing	ICIS-AIR updated approximately once per month, including all of the MDRs on all sources; all CMS sources are flagged in ICIS-AIR and HPVs are correctly identified; Division conducts periodic reviews to ensure data is correct
	1. Provide timely data to ICIS-AIR as identified in the National Minimum Data Requirements (MDR's) on CMS sources evaluated or investigated, and on any other sources that are major according to CAA definition.	Ongoing	Ongoing
	2. Coordinate with EPA to ensure that CMS sources are flagged in ICIS-Air for inspection, and to ensure that high priority violations are correctly identified in ICIS-AIR.		Ongoing
	3. Perform periodic reviews of ICIS-AIR data to ensure required data have been entered correctly.		Ongoing
	Participate in Cross Media Innovation and Strategy Team	Ongoing	Ongoing

	Submit Compliance Monitoring Strategy to EPA	Submitted to EPA by September 30 of each year for the EPA fiscal year beginning on October 1.	CMS Plan for EPA FY'17 was submitted to EPA Region 8 on September 30, 2016.
1.11 Conduct residential burning emissions control program	Participate in High Pollution Advisory Program in Denver metro area.	Ongoing. Daily air quality "Action Day" forecasts are issued from November 1 to March 31.	Ongoing
	Respond to and follow up on complaints.	Complaints are investigated as they are received.	Complaint investigations are conducted on an ongoing basis.
	Coordinate with WESTAR and EPA in identifying PM2.5 and HAP emission contributions from minor source wood boilers and identifying possible control measures if necessary.	Division participates in workshops, trainings and discussions regarding wood boilers.	Ongoing
	Issue warning letters, compliance advisories, NOV's and compliance orders. Conduct AQCC hearings and Settlement Agreements (both state and local agencies)	Ongoing	Ongoing
1.12 Conduct general open burning program	Issue open burning permits and coordinate enforcement against illegal burning and open burning bans.	Ongoing	Ongoing
1.13 Conduct testing and evaluation of industrial sources	Maintain emissions and facility data system from new, revised and renewed APENs into data system.	Ongoing	Emissions and facility data is updated on an ongoing basis as soon as APENs are received by the Inventory & Support team.
1.14 Monitor local SIP commitments for Reg. No. 16 street sanding	Monitoring and assessing community SIP sanding reduction activities and reports.	Ongoing	Ongoing
<b>INDOOR ENVIRONMENT PROGRAM</b>			
1.15 Reduce asbestos exposure to the public through operation of the Asbestos Program	Conduct 200 inspections for compliance with Regulation No. 8 and NESHA.	Ongoing Number of inspections completed	There were 637 inspections conducted
	Review notifications; issue abatement and demolition permits.	Ongoing Number of demolition permits issued Number of abatement permits issued	There were 2210 demolition permits reviewed and issued

			There were 5841 asbestos abatement permits reviewed and issued
	Process certification applications; issue certifications.	Ongoing Number of certifications reviewed and processed for Workers, Supervisors, Building Inspectors, Management Planners, Project Designers, Air Monitoring Specialists and General Abatement Contractors. Number of registrations reviewed and processed for asbestos laboratories, training providers and asbestos consulting firms.	There were 3021 individual certifications reviewed and processed. There were 261 registrations reviewed and processed
	Initiate enforcement actions; timely and appropriate resolution of cases.	Ongoing Number of non-school cases opened Number of non-school cases closed Number of school cases opened Number of school cases closed	There were 19 non-school cases opened and 12 non-school cases closed There were 41 school cases opened and 21 closed
	Conduct outreach activities.	Ongoing Number of outreach activities conducted	There were 7 formal outreach activities conducted
	Incorporate asbestos enforcement requirements in local health department contracts.	The Asbestos Unit currently has contracts with three local health departments to perform asbestos inspections.	We continue to have asbestos contracts with three local agencies: Denver, Jefferson and Pueblo
	Conduct Rulemaking, as necessary.	The Asbestos Unit will revise Colorado Reg. No. 8 when necessary.	No revisions to Regulation No. 8, Part B were needed or undertaken
	Enter data into a database for all asbestos NESHAP notifications and enforcement actions.	Data for all abatement, demolition, certification and enforcement actions is entered into the database on an ongoing basis.	Data for all abatement, demolition, certification and enforcement actions continues to be entered into the database on an ongoing basis
	Implement the TSCA Asbestos-in-Schools Program according to federal and state	The Asbestos Unit continues to implement the TSCA Program,	The Indoor Environment Program continues to implement the TSCA

	rules.	assisting schools to manage asbestos in their buildings. Activities include inspections, being available as a resource for school personnel and responding to complaints. All grant related reports were filed with EPA in a timely manner.	Program, assisting schools with management of asbestos in their buildings. Activities include inspections, serving as a resource for school personnel and responding to complaints. All grant related activities and reports were completed as required
1.16 Reduce occurrences of asbestos in schools	Conduct 48 TSCA/AHERA inspections. Conduct approval and maintenance audits of instructors and classes.	Ongoing Number of inspections conducted Number of course audits conducted	49 TSCA inspections were conducted 6 asbestos course audits were completed
1.17 Operation of lead-based paint certification and abatement program.	Conduct 20 inspections for compliance with Regulation No. 19. Conduct 5 406(b) rule inspections.	Ongoing: Number of inspections conducted	There were 10 inspections completed 6 406(b) rule inspections were completed
	Implement the 406(b) rule (Part B of Regulation No. 19).	Ongoing.	The Indoor environment Program continues to provide information to renovation contractors on the requirements of Part B of Regulation No. 19,
	Process certification applications, issue certifications.	Ongoing: Number of certifications processed and issued.	There were 144 individual and 69 company certifications reviewed and processed
	Conduct lead-based paint course audits. Conduct approval and maintenance audits of instructors and classes.	Ongoing: Number of audits conducted	There were 3 lead-based paint course audits conducted
	Initiate enforcement actions, timely and appropriate resolution of cases.	Ongoing: Number of actions initiated, Number of resolved	There was one lead-based paint enforcement action opened, none closed
	Distribute educational materials.	Ongoing	The Indoor Environment Program continues to work to educate the public about the dangers associated with exposure to lead-based paint.

			Activities included a contest for children and distributing items such as tote bags, paint stir sticks and pamphlets with appropriate messaging as well as free lead check kits.
	Partner with local health departments. Partner with state and local housing agencies.	Ongoing	The Indoor Environment Program continues to partner with other local health departments and healthy housing organizations. It manages the Colorado Lead Coalition which brings together government and private organizations to promote the goal of ending childhood lead poisoning
	Conduct Rulemaking as necessary.	As needed	As anticipated, the Indoor Environment Program did not undertake a revision to Regulation No. 19
<b>PLANNING AND POLICY - SIP DEVELOPMENT, REGULATORY DEVELOPMENT, REGIONAL COLLABORATION, EMERGING ISSUES, COMMUNITY RELATIONS AND COMMUNICATIONS</b>			
1.18 Develop and implement community based air quality programs in cooperation with local agencies or local governments	Monitor community initiatives in San Luis Valley, Lamar (to support maintenance SIP), Grand Valley - Grand Junction area, and other regions of Colorado as warranted.	Ongoing,	EPA approved exceptional event documentation.
	Coordinate Western Colorado Regional Air Quality Collaboration, a voluntary community partnership to promote consistency and collaboration regarding air quality issues.	Ongoing	Ongoing - calls/meetings every 6-8 weeks
	Provide assistance to Garfield County community-based initiative to address natural gas development concerns.	Ongoing	Ongoing - semiannual/annual meetings
	Work to Identify other at risk areas through monitoring or other methods.	Ongoing	Ongoing

	Respond to citizen concerns and inquiries regarding Colorado's air quality and air pollution control strategies	Ongoing	Ongoing as requested. Provided information to residents regarding SO2 emissions from the Martin Drake power plant, among other things
1.19 Develop and/or revise maintenance SIPs and redesignation requests for current nonattainment and attainment/maintenance areas in Colorado	Develop a moderate nonattainment area ozone SIP for the 2008 ozone NAAQS.	Air Quality Control Commission rulemaking in 2016. Submittal to EPA in 2017.	Colorado AQCC approved a SIP for the 2008 ozone NAAQS moderate nonattainment area on November 17, 2016.
	Develop/Prepare Regional Haze 5-year Progress Report SIP.	Submit SIP to Air Quality Control Commission for proposed adoption in fall 2015. RH SIP due to EPA on May 25, 2016.	Timely submitted to AQCC and EPA Region 8
	Develop/Prepare 111(d) Clean Power Plan	Submit Plan to Air Quality Control Commission for review in 2016 and submit initial plan to EPA, followed by a final plan in 2017.	Clean Power Plan and applicable submittal deadlines stayed by the United States Supreme Court
1.20 Develop and submit recommended NAAQS designations, as needed	Follow federal NAAQS revision process and prepare recommended designations to submit to EPA as needed.	As needed. Submit potential 2015 ozone NAAQS designation recommendations in 2016.	Designation recommendations for the 2015 ozone NAAQS were approved by the AQCC in September 2016 and submitted to EPA in October 2016
	Develop/Prepare List of SO2 Sources required to Model/Monitor air quality for future SO2 NAAQS designation	Submit source designations to EPA by January 15, 2016. Complete additional impact analysis by 2016 to ascertain compliance with standard.	Source list and modeling/monitoring plans were timely submitted to EPA Region 8
1.21 Develop and submit Infrastructure SIPs	Develop and submit 2012 PM2.5 NAAQS infrastructure SIP/certification.	Submit to EPA in late 2015.	Submitted in December 2015.
1.22 Develop and submit Interstate Transport SIPs	Prepare 2010 SO2 NAAQS Interstate Transport SIP.	To be developed based on EPA guidance.	Ongoing.
1.23 Monitor transportation	Monitor conformity determinations for Metropolitan Planning Organizations (MPOs) along Front Range.	Ongoing	Ongoing. Division staff now approves a larger share of transportation conformity determinations under



conformity determinations of MPO and CDOT programs and projects - Regulation No. 10			revised definition of “routine” determinations
1.24 Support NEPA activities including review of air quality impacts disclosed in NEPA documents	Review and comment on documents/letters prepared for NEPA process such as Environmental Impact Statements and Resource Management Plans.	Ongoing	Ongoing
1.25 Conduct Regional Modeling for ozone and other purposes	Continue review National Air Toxics Assessments data and comment on proposed rules and policy.	Ongoing	Ongoing
1.26 Operate General Air Toxics Program	Work with other Division programs to seek funding for additional monitoring and grant funding (such as DERA grants).	Ongoing	Ongoing
	Complete additional diesel school bus retrofits contingent upon receipt of DERA funds.	Ongoing	Ongoing
	Improve oil and gas related emission inventories with additional focus on diesel truck traffic.	Ongoing	Ongoing
	Continue implementation of state-only and federal Mercury control/reduction rules. Assist with Mercury TMDL analysis as needed.	Ongoing	Ongoing - quarterly updates available.
1.27 Implement cross-media initiatives	Continue coordination with other CDPHE programs in development and implementation of: Cross Media Programs, and Environmental Coordinating Committee.	Ongoing	Ongoing
1.28 Operate Small Business Assistance Program	Conduct industry workshops, data collection and coordination.	Ongoing	SBAP conducted 1 workshop and completed 13 data collection efforts. (No new regulations warranted workshops this year.)

	Support Compliance Advisory Panel	Ongoing	SBAP attends and supports quarterly CAP meetings.
	Update small businesses through site visits and technical assistance (MOU with Field Services Unit).	Site visits performed when requested by business, Field Services, or others.	SBAP conducted 30 on-site visits and assisted 915 businesses.
	Provide consultations and site visits in accordance with MOU with Field Services Unit on enforcement referrals.	Site visits performed when requested by business, Field Services, or others.	SBAP conducted 30 on-site visits and assisted 915 businesses.
	Outreach and coordination with local health departments.	Ongoing. Local health departments invited to workshops.	Local health departments are assisted upon request, and invited to workshops and trainings as appropriate.
	Participate in Cross Media Innovation and Strategy Team - sector projects and coordination.	Ongoing	SBAP coordinates and attends CMIST meetings.
	Develop End-of-year report on compliance assistance efforts	Ongoing - Report developed annually	Report completed and submitted to EPA on time.
<b>TECHNICAL SERVICES PROGRAM -- MONITORING, EMISSION INVENTORIES, MODELING, PRESCRIBED FIRE</b>			
1.29 Monitor Air Quality	Per CFR Schedule, submit all ambient criteria pollutant data to the Air Quality System (AQS). Per the Exchange Network requirements for regulatory and national system reporting, submit data in XML-format.	Ongoing	Ongoing. Data being submitted to AQS in XML.
	Implement ambient air monitoring program in accordance with 40 CFR Part 58.	Ongoing	Ongoing
	Submit five-year Network Assessment.	Submitted by July 1, 2015 deadline. Next 5-year Assessment due by 7/1/2020.	No action needed.
	Submit annual SLAMS data certification.	Ongoing, due by May 1 each year.	2015 Data Certification letter

			submitted to EPA on 4/29/2016.
	Operate and maintain monitoring sites statewide (gaseous, particulate, meteorology). Perform daily, weekly, monthly, quarterly, and semi-annual inspections, cleaning, and preventive maintenance per SOP schedules. Perform manual bi-weekly precision tests.	Ongoing	Ongoing
	Provide updates to department-wide Quality Assurance Management Plan (QMP) and submit to EPA as needed.	Completed in 2011. Full revision to be submitted to EPA by late 2015.	Updates provided to the department QMP in March 2016.
	Revise Quality Assurance Project Plan (QAPP) and submit to EPA.	Ongoing/revisions in progress, to be completed by late 2015 and submitted to EPA.	Full QAPP finalized and sent to EPA in July 2015. Ongoing updates in June and October 2016.
	Operate ambient air monitoring network in accordance with QAPP.	Ongoing	Ongoing
	Modify and update CDPHE sites and data in EPA AQS System.	Ongoing	Ongoing
	Produce Annual Air Quality Data Report.	Ongoing	Ongoing. 2015 report published October 2016.
	QA / QC Review.	Ongoing	Ongoing
	Submit Annual Network Plan to EPA that is oriented toward the new National Air Monitoring Strategy guidance. Review site files.	Ongoing, due by July 1 each year.	Ongoing. Annual Network Plan submitted to EPA on 7/1/2016.
	Conduct daily forecasting, summer and winter pollution advisories, and prepare High Pollution Advisory Season and Summer Ozone Advisory Statistics.	Ongoing. Forecasting for Denver and Colorado Springs areas is required by CFR, based on population. Additional non-required forecast areas include Fort Collins-Greeley, Grand Junction, and Colorado River Valley.	Ongoing. Forecasting provided on a daily basis to 7 areas in Colorado, including Denver and Colorado Springs.
	Continue Emergency Response Forecasting	Ongoing	Ongoing

	and Support to CDPHE Emergency Response Planning.		
	Continue NCore monitoring station as approved by EPA.	Ongoing at LaCasa site in Denver.	Ongoing
	Maintain awareness of requirements for monitoring for new NAAQS. Install sites as needed to meet requirements.	Ongoing. Second near-road NO2 site in Denver installed in late 2015.	Ongoing
	Maintain awareness of new requirements for Exceptional Events. Flag data in AQS related to natural and exceptional events. Develop and submit documentation to EPA.	Ongoing. Calendar year flags and initial event descriptions in AQS by July 1 of the following year.  Development and submittal of exceptional event documents is ongoing.	Ongoing. All 2015 event descriptions and flags placed in AQS before June 30, 2016. Summer 2016 events for ozone are under review. Documentation for some events is underway, as needed.  Note: New EPA Exceptional Events rule eliminates timelines for flagging and reporting.
	Conduct Special Monitoring Projects.	As needed. Ozone precursor/NMOC sites ongoing in Denver/Weld county area. North Front Range Emissions and Dispersion Study commenced in 2013, scheduled to end 6/30/2016. Community-Scale Air Toxics Grant to commence in late 2015: Determining local scale air toxics gradients near the I-25/I-70 interchange in environmental justice communities in Denver, Colorado.	Ongoing. Ozone precursor monitoring continuing at 2 sites: CAMP and Platteville.  North Front Range Emissions and Dispersion Study has completed, with a final report issued in August 2016.  Community-Scale Air Toxics Grant is ongoing. A contract with Denver has been finalized. Most equipment has been purchased.
	Continue National Air Toxics Trends monitoring site in Grand Junction: Maintain and repair VOC/carbonyl, PAH and	Ongoing. QAPP/SOP updates to be completed and submitted to EPA in late 2015.	Ongoing.  QAPP/SOP updates submitted to EPA

	PM10/metals monitoring equipment. Install and maintain additional equipment as required. Perform calibrations and audits on the equipment. Interpret and report data received from the analytical lab. Submit data to AQS within 90 days after the end of each quarter. Provide quarterly analysis updates. Perform monitoring according to the NATTS Technical Assistance Document. Review and update QAPP as necessary.		in Sept. 2015. Further updates to the QAPP are being developed per EPA issuance of a new NATTS Technical Assistance Document in October 2016.
	Assist local agencies in special monitoring studies.	Ongoing. Work on a locally supported source air toxics study targeted at development activities in Garfield County is continuing.	Ongoing.  Garfield County monitoring and support is continuing.
1.30 Develop and Maintain Emissions Inventories	Provide updated emission inventory reports using new EIS system for point, nonpoint and mobile sources (type B) using 2015 emission data and based on the EPA-established reporting thresholds for SOX, NOX, VOC, PM2.5 and PM10, CO, Pb and NH3.	Ongoing	Ongoing
	Develop of an Integrated Approach / Methodology for Inventory Development.	Ongoing	Ongoing
	Support inventory development for state SIPs including Ozone SIP.	Ongoing	Ongoing. New inventories were developed to support the 2008 Ozone Bump-up SIP completed in November 2016.
	Continue work on the 3-state pilot program: monitoring, emissions/data warehouse (as identified in the "2010 Three-State Pilot Project: Air Monitoring Site Installation and Operation, Emissions Inventory Data Warehouse Development - Colorado Workplan and Budget"), and modeling (as funding is available). This	Ongoing. Ozone/meteorological site near Elk Springs is operational. A site near Paradox is to be installed. Development and implementation of the Data Warehouse is continuing.	Ongoing.  The new Paradox site became operational in spring 2016.  Continuing participation in the Intermountain West Data Warehouse

	project will be re-named the “Intermountain West Data Warehouse”.		steering committee and technical committee.
1.31 Conduct Air Quality Modeling	Conduct modeling for stationary source permits.	Ongoing	Ongoing
	Conduct regional modeling for ozone and other purposes.	Ongoing	Ongoing.  The 2008 Ozone NAAQS moderate nonattainment area SIP revision was adopted by the AQCC in November 2016.
	Conduct modeling for state SIPS as needed.	Ongoing. Current efforts include 75 ppb Ozone SIP bump-up to moderate, 1-hour SO2 designations.	Ongoing.  The 2008 Ozone Bump-up SIP was completed in November 2016.  Modeling support for the 2010 1-hour SO2 NAAQS designations is to be completed in December 2016.
1.32 Conduct Prescribed Fire Program	Implement prescribed fire program (develop MOU and issue permits for significant users of prescribed fire through implementation of state-only program through Reg. No. 9: Open Burning, Prescribed Fire and Permitting.)	Ongoing	Ongoing.  372 smoke management permits were issued in 2015.
	Conduct oversight to ensure that permittees implement best air quality protection practices in prescribed burning events.	Ongoing	Ongoing
	Implement local delegation component of program.	Ongoing	Ongoing
	Continue evaluating and implementing recommendations from report developed by HB-09-1199 mandate to review and evaluate Smoke Management Program. Recommendations focus on improved and	Ongoing Work is continuing on relaxing standard conditions, as appropriate. Work on pilot burns and subsequent	Ongoing

	simplified permitting, communications, monitoring and observation of fires and smoke, resource identification and data analysis.	data analysis is ongoing.	
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## APCD Goal 2: Achieve levels of air quality in Colorado that protect the integrity of the natural ecosystem

APCD Sub-goals include:

- Protect environment from acid deposition damage - Ensure all Class I areas are protected from acid deposition impacts and other Air Quality Related Values are protected.
- Protect stratospheric ozone - Ensure the control of CFC compounds.
- Take action on climate change - Ensure greenhouse gas emissions are managed.
- Protect environment from Mercury contamination.

### EPA 2014-2018 Strategic Plan

- **Goal 1: Addressing Climate Change and Improving Air Quality:**
  - Objective 1.1 Address Climate Change
  - Objective 1.2 Improve Air Quality
  - Objective 1.3 Restore and Protect the Ozone Layer

Program Strategy	Activity	Milestone/Measures	FY2016 Status and Accomplishments
2.1 Ensure acid rain minimized through operation of construction and operating permit programs	Issue permits to utilities.	Ongoing	Construction and operating permits issued to subject utilities consistent with the requirements of the acid rain program.
2.2 Ensure acid deposition emissions are minimized through testing and evaluation of industrial sources	Conduct stack testing, source audits and CEM certifications for utilities.	Ongoing	Ongoing. See update under 1.10.
	Evaluate excess emission reports for utilities	Ongoing	Ongoing. See update under 1.10.



2.3 Ensure acid rain minimized through updates to Regulation No.18 as necessary	Revise regulation.	Ongoing	No revision to Regulation No. 18 was needed or undertaken.
2.4 Reduce nitrogen deposition through implementation of Rocky Mountain National Park Initiative	Annually assess monitoring/research data.	Ongoing	Completed through 2015
	Work with agricultural stakeholders to develop studies, projects, and Best Management Practices to reduce ammonia emissions	Ongoing	Ongoing; outreach is continuing through the Agriculture Subcommittee.
	Assess ammonia inventory categories regularly and potential reduction and/or communication strategies.	Ongoing	Ongoing; steering committee reviewed data requirements.
	Focus additional attention to RMNP in regard to AQRV impairment. Begin to review and update 2010 Contingency Plan. Continue tracking of nitrogen deposition reduction. Continue collaboration with Agriculture Subcommittee and other stakeholder groups.	Ongoing	Ongoing; Agriculture Subcommittee continues to meet quarterly.
2.5 Protect stratospheric ozone levels through minimizing emissions of CFCs from applicable sources	Equipment registration and facility notification.	Number of equipment items registered, Number of facility notifications	1665 equipment registrations. 1943 facility notifications.
	Inspections (both state and local agencies) for compliance with Regulation No. 15.	Number of inspections conducted	985 inspections conducted.
	Training and outreach (including pollution prevention).	Ongoing	Training of local health department inspectors is ongoing.
	Continue to negotiate local health department contracts annually for CFC inspections and enforcement.	Ongoing	Local health department CFC contracts are negotiated annually.
2.6 Ensure man-made climate change impacts minimized	Develop policies and regulations as needed to implement the federal GHG rules.	Policies and/or regulations developed to allow state implementation of the federal GHG rules as necessary or directed by	The Clean Power Plan was stayed by the U.S. Supreme Court.

		EPA.	
	Issue Title V and PSD permits for GHG as provided in federal rules.	Ongoing	Included GHG provisions in Title V and PSD permits as required.
	Monitor and evaluate reduction strategies.	Ongoing	Ongoing in accordance with the Colorado Climate Plan
	Monitor legislative activity locally and nationally.	Ongoing	Ongoing
	Continue to coordinate with efforts to implement Governor's Climate Change Initiative and greening Government Executive Order	Ongoing	Ongoing; Colorado Climate Plan released September 2015; Executive Order D 2015-013 signed October 2015
	Continue to coordinate with efforts to implement Governor's Climate Action Plan.	Ongoing	Ongoing
2.7 Reduce mercury pollution through Colorado cross-media programs	CDPHE Strategic Programming process (see discussion in Chapter 2 of PPA). Assist the Water Division with Mercury TMDLs analyses as needed and ongoing assessment of emissions and deposition.	Ongoing	Ongoing; mercury emission reductions are quantified quarterly (from large stationary sources).

### **APCD Goal 3: Achieve a level of ambient air quality that protects and preserves standards for visibility and aesthetic concerns for pollutants that cause odors**

APCD Sub-goals include:

- Improve Urban Visibility (Denver AIR Program Area and Fort Collins) - Ensure a decrease in the number of days the Colorado Visibility Standard is exceeded in the areas of applicability
- Reduce Regional Haze (for National Parks and Class I Wilderness areas) - Ensure natural background visibility conditions in all Mandatory Class I Areas by 2064 through the development and implementation of the Colorado Regional Haze SIP
- Control Odors

#### **EPA 2014-2018 Strategic Plan**

- **Goal 1: Addressing Climate Change and Improving Air Quality**

Program objective	Activity	Milestone/Measure	FY2016 Status and Accomplishments
3.1 Reduce pollutants causing haze through the operation of mobile source strategies: Reg. No. 11 - A.I.R. Program Reg. No 12 - Diesel Inspection Smoking vehicles Clean fuels	Described earlier in work plan.	Described earlier  Contributed to CDOT/Colorado Energy Office's "Energy Smart Transportation Committee" efforts to promote clean fuels and vehicles, such as CNG and electric vehicles.	Ongoing
3.2 Reduce pollutants causing haze through the operation of the stationary sources program objectives Operation of Construction and Operating Permit Programs Small Business Assistance Program Compliance monitoring and enforcement of stationary sources Wood burning Control Program - High Pollution Advisory Program and state and local woodstove regulations	Described earlier in work plan.	Described earlier	Described earlier
3.3 Support reduction of haze-causing pollutants through regulation updates	Described earlier in work plan.	Described earlier	Ongoing - Regional Haze compliance schedules complete. Most facilities will meet Regional Haze limits earlier than required in RH SIP.
3.4 Track program indicators through urban haze monitoring, inventories and	Operate visibility monitoring network in Denver and Fort Collins	Ongoing	Ongoing

modeling	(transmissometers, nephelometers and web cameras).		
	Air quality “Action Day” forecasts year-round	Ongoing	Ongoing
	Conduct sample speciation and chemical mass balance modeling	Ongoing Supports exceptional event technical documents.	Ongoing as needed
	Perform daily, weekly, monthly, quarterly, and semi-annual inspections, cleaning, and preventive maintenance per SOP schedules. Perform manual bi-weekly precision tests.	Ongoing	Ongoing
	Operate and maintain gaseous/continuous sites statewide.	Ongoing	Ongoing
	Operate and maintain particulate monitoring sites statewide.	Ongoing	Ongoing
	Operate and maintain meteorological monitoring equipment.	Ongoing	Ongoing
	Air Quality Forecasting and Air Quality Index (AQI) Reporting on a daily basis.	Ongoing	Ongoing
3.5 Implement the Colorado Regional Haze	Develop SIP strategic plan to coordinate, to the	Ongoing	Ongoing - Regional Haze compliance schedules complete. Most facilities

SIP	extent allowed, planning efforts for ozone and Regional Haze.		will meet Regional Haze limits earlier than required in RH SIP.
3.6 Support Class I Attributable Visibility Impairment Visibility SIP	Assemble and analyze IMPROVE monitoring data using statistical methods such as factor analysis, trajectory models, and chemical mass balance models.	Ongoing, as needed.	Ongoing
	Provide technical assistance to various visibility workgroups as requested.	Ongoing	Ongoing
	Continue to work resolve certification issues.	Ongoing	Ongoing
	Three-year review of federal land manager activities as required by SB 17 developed.	Ongoing	Ongoing
	Participate in SIP calls.	Ongoing	Ongoing
3.7 Continue implementation of effective fire and smoke management and prescribed fire program	Develop and revise, as needed, Wildfire Response Plan and Protocol. During wildfire events and large prescribed fires, assist land managers in conducting PM monitoring. Coordinate with public information officer and meteorologist.	Ongoing	Ongoing
	Participate in the Front	Ongoing	Ongoing

	Range Roundtable as appropriate.		
	Work with local communities and partnerships to address wildland fuels treatment as needed.	Ongoing	Ongoing
3.8 Track program effectiveness indicators through haze monitoring, inventories and modeling	Coordinate with Federal agencies and private entities conducting visibility, lake chemistry and acid deposition monitoring and research in Colorado. Agencies and contractors, to varying degrees, are also involved in AQRV model development.	Ongoing	Ongoing
	Perform audits of IMPROVE samplers.	Ongoing	Ongoing

## 4.0 Water Quality Control Division FY2016 Status and Accomplishments

**TABLE 1: FFY16-17 NATIONAL WATER PROGRAM GUIDANCE MEASURES**

EPA G/O/S	EPA FFY16 ACS Code	EPA FFY16 Measure Text	EPA FFY16 Planning Target	Colorado FFY16-17 Goals	Colorado FFY16-17 Commitment Text	FFY16 Status and Accomplishments
<b>Goal 2: Protecting America's Waters</b>						
<b>Objective 2.1 Protect Human Health</b>						
<b>Subobjective 2.1.1 Water Safe to Drink</b>						
2.1.1	SDW-211	Percent of the population served by community water systems that receive drinking water that meets all applicable health-based drinking water standards through approaches including effective treatment and source water protection.	92%	92%	Monitor self-reported data submitted by the state's drinking water suppliers, to ensure that reported data meet all existing federal and state requirements; ensure reported data are accurately entered into the state's data system; and that violations are determined and responded to. Measure state outcomes against national targets.	95.8%
2.1.1	SDW-SP1.N11	Percent of community water systems that meet all applicable health-based standards through approaches that include effective treatment and source water protection.	90% FFY16 (92% FFY18)	90%	See state commitment narrative for SDW-211.	82.7%
2.1.1	SDW-SP2	Percent of "person months" (i.e. all persons served by community water systems times 12 months) during which community water systems provide drinking water that meets all applicable health-based drinking water standards.	95%	95%	See state commitment narrative for SDW-211.	Colorado is not able to generate this measure and continues to rely upon EPA to do so.

2.1.1	SDW-SP4a	Percent of community water systems where risk to public health is minimized through source water protection.	49% (national) 35% (regional)	16%	Report to EPA in the SWAP Performance Accountability Report (PAR) the population numbers served by community water systems where “minimized risk is achieved by substantial implementation” of source water protection actions, as determined by Colorado.	One hundred eighty (180) community water systems and their associated source water areas were reported with “minimized risk achieved by substantial implementation.” This equates to approximately 21% of community water systems in Colorado. Approximately 32 protection planning grant applications were received in 2016. These protection planning efforts have assisted us in achieving our 16% percent goal outlined in the FY2016 Region 8/State PPA target setting table.
2.1.1	SDW-SP4b	Percent of the population served by community water systems where risk to public health is minimized through source water protection.	59% (national) 35% (regional)	15%	<ol style="list-style-type: none"> <li>1. Reduce potential consumer exposure of community drinking water systems to various contaminants in raw water sources.</li> <li>2. Report to EPA in the SWAP Performance Accountability Report (PAR) report the number of source water areas with “minimized risk achieved by substantial implementation” of source water protection actions as determined by Colorado.</li> </ol>	Approximately, 45% of the population served by community water systems has “minimized risk by substantial implementation.” Colorado has exceeded the 15% milestone/performance measure agreed to in the FY2016 Region 8/State PPA target setting table.
2.1.1	SDW-01a	Percent of community water systems (CWSs) that have undergone a sanitary survey within the past three years (five years for outstanding performers or those ground water systems approved by the primacy agency to provide 4-log treatment of viruses).	79%	81%	<ol style="list-style-type: none"> <li>1. Eliminate sanitary defects at public water systems that could increase the risk that contaminated drinking water will be distributed to consumers.</li> <li>2. Conduct sanitary surveys (eight-part) at public water systems as required by Primary Drinking Water Regulations.</li> <li>3. The state will enter into SDWIS/STATE, the most recent sanitary survey date completed in the last three (3) years for all Subpart H Community Water Systems which have received a survey consistent with the eight-part requirements of 40 CFR 142.16(b)(3) by January 31.</li> </ol>	<ol style="list-style-type: none"> <li>3. All sanitary surveys are entered into SDWIS.</li> <li>4. WQCD will submit the Subpart H letter by February 15.</li> </ol>



					<p>4. In accordance with 40 CFR 142.15(a)(5), the state shall submit to the Region 8 Drinking Water Unit a list of all Subpart H Systems that have had a Sanitary Survey meeting the eight part requirements of 40 CFR 142.16(b)(3) during the prior calendar year by the end of January. Colorado will meet its obligation for such a list by entering the completion date of each required Subpart H System survey into SDWIS/STATE and will submit to the Region 8 Drinking Water Program an evaluation of its program for conducting Subpart H System Sanitary Surveys in accordance with 40 CFR 142.16(b)(3) during the prior calendar year as required by 40 CFR 142.15(a)(5) by February 15.</p> <p>5. Provide in the end-of-year report the number of CWSs that have undergone a sanitary survey and the number and percentage of systems not surveyed within required timeframes in each of the following categories:</p> <ul style="list-style-type: none"> <li>a) Community groundwater systems not surveyed in the last 3 years;</li> <li>b) Community surface water systems not surveyed in the last 3 years;</li> <li>c) Non-community water systems not surveyed in the last 5 years.</li> </ul>	<p>5. a) Community groundwater. 482 sanitary surveys performed. 4 (0.8%) not surveyed.</p> <p>b) Community surface water systems. 377 sanitary surveys performed. 11 (2.8%) not surveyed.</p> <p>c) Non-community water systems. 1,177 sanitary surveys performed. 0 (0%) not surveyed.</p>
2.1.1	SDW-15	Number and percent of small CWS and NTNCWS (<500, 501-3,300, 3,301-10,000) with repeat health based Nitrate/Nitrite, Stage 1 D/DBP, SWTR and TCR violations.	Indicator	N/A - Indicator	See state commitment narrative for SDW-211.	This was a new measure as of FFY15. There has not been information provided by EPA regarding the "repeat violations" language in the measure text. Colorado is not able to generate this measure.
2.1.1	SDW-17	Number and percent of schools and childcare	Indicator	N/A - Indicator	See state commitment narrative for SDW-211.	62 (92.5%)

		centers that meet all health-based drinking water standards.				
<b>Subobjective 2.1.2 Fish and Shellfish Safe to Eat</b>						
2.1.2	FS-1a	Percent of river miles where fish tissue were assessed to support waterbody-specific or regional consumption advisories or a determination that no consumption advice is necessary. (Great Lakes measured separately; Alaska not included) (Report every two years)	Indicator	N/A	<ol style="list-style-type: none"> <li>1. Issue or rescind Fish Consumption Advisories where appropriate.</li> <li>2. Update on National List of Fish Advisories.</li> <li>3. Implement statewide fish consumption guidelines.</li> </ol>	See status and accomplishments for FS-1b.
2.1.2	FS-1b	Percent of lake acres where fish tissue were assessed to support waterbody-specific or regional consumption advisories or a determination that no consumption advice is necessary. (Great Lakes measured separately; Alaska not included) (Report every two years)	Indicator	N/A	<ol style="list-style-type: none"> <li>1. Issue or rescind Fish Consumption Advisories where appropriate.</li> <li>2. Update on National List of Fish Advisories.</li> <li>3. Implement statewide fish consumption guidelines.</li> </ol>	<p>Seventeen lake and river sites across the state were sampled for contaminants in fish tissue from July 1, 2015 through June 30, 2016. Three new fish consumption advisories were issued, and modifications were made to existing advisories on four lakes.</p> <p>No updates for the National List of Fish Advisories were requested from the state during FFY2016. We participate in regular meetings with the EPA Fish and Shellfish program and will fulfill requests as they are made.</p> <p>Statewide fish consumption guidelines are now expressed in an easy to understand infographic and are available on our website, as well as in printed material.</p>

Subobjective 2.1.3 Water Safe for Swimming						
2.1.3	SS-1	Number and national percent, using a constant denominator, of Combined Sewer Overflow (CSO) permits with a schedule incorporated into an appropriate enforceable mechanism, including a permit or enforcement order, with specific dates and milestones, including a completion date consistent with agency guidance, which requires: 1) implementation of a Long Term Control Plan (LTCP) which will result in compliance with the technology and water quality-based requirements of the Clean Water Act; or 2) implementation of any other acceptable CSO control measures consistent with the 1994 CSO Control Policy; or 3) completion of separation after the baseline date. (cumulative)	801 (93%)	N/A	Colorado has no CSOs.	This measure is not applicable for Colorado.
Objective 2.2 Protect and Restore Watersheds and Aquatic Ecosystems						
Subobjective 2.2.1 Improve Water Quality on a Watershed Basis						
2.2.1	WQ-SP10.N11	Number of waterbodies identified in 2002 as not attaining water quality standards where standards are now fully attained. (cumulative)	4,166 (national) 382 (regional) (4,430 FFY18 national)	1 FFY16  1 FFY17	1. Targeted number of water segments fully restored in FFY15-16 (SP-10); 1. 2. Targeted number of water segments fully restored in FFY16-17 (SP-10); 1.	Based on the Colorado 2014-2016 Integrated Report, Colorado has added one to its cumulative SP-10 count.
2.2.1	WQ-SP11	Remove the specific causes of waterbody impairment identified by states in 2002. (cumulative)	13,228 (national) 920 (regional)	1 FFY16  1 FFY17	1. Targeted number of water quality impairments restored in FFY15-16 (SP-11); 1. 2. Targeted number of water quality	Based on the Colorado 2014-2016 Integrated Report, Colorado has added six to its cumulative SP-11 count.

					impairments restored in FFY16-17 (SP-11); 1.	
2.2.1	WQ-SP12.N11	Improve water quality conditions in impaired watersheds nationwide using the watershed approach. (cumulative)	484 (national) 68 (regional)  (575 FFY18 national)	1	By January 1, 2016, develop a prioritized list of candidate watersheds for submittal to EPA. The candidate watersheds will be identified based on a number of factors such as: NPS project/activities location information; impairment status; existing data evaluation; identification of data gaps. By May 1, 2016, identify for submittal to EPA at least two near-term, priority watersheds to focus resources for further evaluation and develop workplans, including sampling and analysis plans, to address data and information needs and define milestones necessary to show reasonable progress toward documenting improvement in water quality conditions for each of the near-term, priority watersheds within three years. By 09/30/16, report to EPA progress on implementing workplans for near-term, priority watersheds, especially status of meeting reasonable progress milestones and need to re-evaluate other candidates in lieu of a near-term, priority watershed(s) if reasonable progress is not being made.	A draft prioritization process, candidate watershed list, near-term candidate watersheds and workplans for these watersheds are being finalized with the EPA NPS project officer.

2.2.1	WQ-01d	Number of numeric water quality standards planned to be adopted within 3 years for total nitrogen and total phosphorus for all waters within the state or territory for each of the following waterbody types: lakes/reservoirs, rivers/streams, and estuaries, based on a full set of performance milestone information supplied annually by states and territories (cumulative, out of a universe of 280).	16 (national) 4 (regional)	N/A	Continue to implement the Nutrient Criteria Development Plan for Colorado, September 26, 2002, Colorado Department of Public Health & Environment, or any revisions to this plan. Provide work products on the tasks identified in milestone schedule and number of applicable standards actions.	<p>Numeric nutrient standards for phosphorus and chlorophyll <i>a</i> have been adopted for over 580 segments (~55%) across Colorado to protect aquatic life, recreation and water supply uses in the following specific circumstances: 1) in rivers/streams and lakes/reservoirs in head- waters upstream of existing dischargers; 2) in Direct Use Water Supply (DUWS) Lakes and Reservoirs where this type of protection is determined to be appropriate (chlorophyll <i>a</i> only). The division is currently preparing a proposal that will recommend adoption of nutrient criteria or DUWS sub-classifications for similar circumstances as part of the San Juan and Gunnison River Basins triennial review rulemaking (June 2017).</p> <p>The division is currently working with EPA and stakeholders regarding implementation and future planning on Colorado's nutrient control regulation, Regulation #85, in preparation for an October 2017 rulemaking hearing.</p>
2.2.1	WQ-03a	Number, and national percent, of states and territories that within the preceding three year period, submitted new or revised water quality criteria acceptable to EPA that reflect new scientific information from EPA or other resources not considered in the previous standards.	41 (73.3%) (national) 3 (regional)	N/A	<p>Continually review water quality standards and revise them if necessary in accordance with State and Federal statute and Water Quality Control Commission schedule.</p> <ol style="list-style-type: none"> <li>1. Scoping Hearing Reg #34/35: 10/2015 and #32/36 10/2016.</li> <li>2. Formulation Hearing Reg #31 11/2015 and #34/25 11/2016.</li> <li>3. Rulemaking Hearing All Regs (Temp Mods): 12/2015 and 12/2016.</li> <li>4. Rulemaking Reg #31 6/2016 and #34/35 6/2017.</li> <li>5. Prepare notice for Temp Mods rulemaking (by 8/1/2016 and 8/1/2017).</li> </ol>	<ol style="list-style-type: none"> <li>1. Scoping Hearing Reg #34/35: 10/2015 and #32/36 10/2016. Completed as scheduled.</li> <li>2. Formulation Hearing Reg #31 11/2015 and #34/25 11/2016. Completed as scheduled.</li> <li>3. Rulemaking Hearing All Regs (Temp Mods): The 12/2015 rulemaking hearing was completed as scheduled. The 12/2016 rulemaking hearing is scheduled and all relevant hearing documents have been submitted to date.</li> <li>4. Rulemaking Reg #31 6/2016 and #34/35 6/2017. The 6/2016 rulemaking hearing for Regulation #31 was completed as scheduled. The rulemaking hearing for Regulation</li> </ol>

						#34/35 is scheduled for 6/2017. 5. Prepare notice for Temp Mods rulemaking hearing (by 8/1/2016 and 8/1/2017). The notice for the Temp Mods rulemaking hearing for December 2016 was submitted.
2.2.1	WQ-04a	Percentage of submissions of new or revised water quality standards from states and territories that are approved by EPA.	100%	3	Work with EPA and stakeholders to propose revisions to disapproved water quality standards provision in the 2016 Regulation #31 proceedings: a) Nitrate footnote. b) Arsenic footnote. c) Use Protected designation for effluent dependent/ dominated waters.	The division worked with EPA and stakeholders to propose revisions for the disapproved water quality standards provisions in the June 2016 RMH for Regulation #31. a) The Water Quality Control Commission repealed the disapproved nitrate footnote with a delayed effective date of December 31, 2022. b) The commission deleted the disapproved arsenic footnote. c) The commission repealed the disapproved default provision for effluent-dependent/ dominated waters with a delayed effect date of December 31, 2019.
2.2.1	WQ-09a	Estimated annual reduction in million pounds of nitrogen from nonpoint sources to waterbodies (Section 319 funded projects only).	9.1	N/A	Report actual load reductions in GRTS as project-specific information. Request load reduction estimates from new projects.	Actual, project-specific load reductions and load reduction estimates for new projects were reported in GRTS.
2.2.1	WQ-09b	Estimated annual reduction in million pounds of phosphorus from nonpoint sources to waterbodies (Section 319 funded projects only).	4.5	N/A	Report actual load reductions in GRTS as project-specific information. Request load reduction estimates from new projects.	Actual, project-specific load reductions and load reduction estimates for new projects were reported in GRTS.
2.2.1	WQ-09c	Estimated annual reduction in million tons of sediment from nonpoint sources to waterbodies (Section 319 funded projects only).	1.2	N/A	Report actual load reductions in GRTS as project-specific information. Request load reduction estimates from new projects.	Actual, project-specific load reductions and load reduction estimates for new projects were reported in GRTS.
2.2.1	WQ-10	Number of waterbodies identified by states (in	644 (national) 40 (regional,	1	By January 1, 2016, develop a prioritized list of candidate watersheds	A draft prioritization process, candidate watershed list, near-term candidate

		1998/2000 or subsequent years) as being primarily nonpoint source (NPS)-impaired that are partially or fully restored. (cumulative)	3 (new success stories)		<p>for submittal to EPA. The candidate watersheds will be identified based on a number of factors such as: NPS project/activities location information; impairment status; existing data evaluation; identification of data gaps. By May 1, 2016, identify for submittal to EPA at least two near-term, priority watersheds to focus resources for further evaluation and develop workplans, including sampling and analysis plans, to address data and information needs and define milestones necessary to show reasonable progress toward documenting improvement in water quality conditions for each of the near-term, priority watersheds within three years.</p> <p>By September 30, 2016, report to EPA progress on implementing workplans for near-term, priority watersheds, especially status of meeting reasonable progress milestones and need to re-evaluate other candidates in lieu of a near-term, priority watershed(s) if reasonable progress is not being made.</p>	watersheds, and workplans for these watersheds are being finalized with the EPA NPS project officer.
2.2.1	WQ -11	Number, and national percent, of follow-up actions that are completed by assessed NPDES (National Pollutant Discharge Elimination System) programs. (cumulative)	Indicator	N/A	The division does not currently have any follow-up actions.	No follow-up actions during this performance period.
2.2.1	WQ-12a	Percent of non-tribal facilities covered by NPDES permits that are considered current. [Measure will still set targets and commitments and report results in both % and #.]	90%	<p>75% FFY16 1,124</p> <p>85% FFY17 1,263</p>	The division's priorities for FY16 and FY17 are to continue issuing individual permits based on the watershed schedule, to complete the sand and gravel stormwater renewals, the hydrostatic testing renewal, the construction SW renewal, and the	The backlog as of October 1, 2016 is 40% (60% current). This falls short of the projection of 25% backlogged (75% current). There are several reasons for the shortfall: delay in renewal of the sand and gravel general permit; unexpected vacancies; and

					<p>aquatic animal production renewal. This means the national target will not be met for FY16 because while work will be done on the water treatment plant renewal, it may not be completed until FY17 and while work will be done on the commercial washing renewal it may not be completed until FY18.</p>	<p>unanticipated budget shortfalls that have not allowed many vacancies to be filled. Since the sand and gravel permit has now been issued the division expects the overall backlog for October 1, 2017 to improve to 26% backlogged (74% current). However, the backlog in individual permits is expected to increase significantly due to staffing reductions.</p>
2.2.1	WQ-13a	Number of MS-4s covered under either an individual or general permit.	Indicator	Report	The division maintains permitted MS4 information in ICIS.	The division has maintained permitted MS4 information in ICIS.
2.2.1	WQ-13b	Number of facilities covered under either an individual or general industrial storm water permit.	Indicator	Report	The division maintains the majority of permitted industrial stormwater information in ICIS. Any permits not maintained in ICIS are reported to EPA through the PMOS database.	The division maintains the majority of permitted industrial stormwater information in ICIS. Any permits not maintained in ICIS are reported to EPA through the PMOS database.
2.2.1	WQ-13c	Number of sites covered under either an individual or general construction storm water site permit.	Indicator	Report	The division is working to upload construction stormwater permit information to ICIS. If this project is not complete by the end of FY2016 or FY2017 then construction stormwater permit information will be reported through the PMOS database.	The division maintains construction stormwater permit information in ICIS. The information is also reported through PMOS.
2.2.1	WQ-13d	Number of facilities covered under either an individual or general CAFO permit.	Indicator	N/A	N/A	<ul style="list-style-type: none"> <li>• 85 CAFO general certifications.</li> <li>• 11 individual permits.</li> </ul>
2.2.1	WQ-14a	Number, and national percent, of Significant Industrial Users (SIUs) that are discharging to POTWs with Pretreatment Programs that have control mechanisms in place that implement applicable pretreatment standards and requirements.	20,700 98.0%		Colorado is not delegated for implementation of the pretreatment program; therefore, EPA is the lead authority on measure WQ14a and the EPA Region 8 reports on this national measure.	Not applicable. See associated commitment text.



2.2.1	WQ-14b	Number, and national percent, of Categorical Industrial Users (CIUs) that are discharging to POTWs without Pretreatment Programs that have control mechanisms in place that implement applicable pretreatment standards and requirements.	Indicator		Colorado is not delegated for implementation of the pretreatment program; therefore, EPA reports on this national measure. As Colorado has a state pretreatment program, Colorado actively works to permit SIUs in non-pretreatment POTWs and provides that information to EPA.	Not applicable. See associated commitment text.
2.2.1	WQ-19a	Number of high priority state NPDES permits issued in the fiscal year.	442		The Division will enter a high priority permit commitment into the PMOS database. The Division will submit the number of priority permits within 30 days of receiving the draft list from EPA.	The division submitted a high priority permit commitment to EPA, met the commitment, and reported this to EPA through PMOS.
2.2.1	WQ-27	Extent of priority areas identified by each state that are addressed by EPA-approved TMDLs or alternative restoration approaches for impaired waters that will achieve water quality standards. These areas may also include protection approaches for unimpaired waters to maintain water quality standards.	8%	Percent unknown because areas are not yet computed.	<p>Computation of priority areas by EPA is in progress. As a placeholder, FY16 targets are being reported as segment and number of TMDLs:</p> <ul style="list-style-type: none"> <li>• Coal/Slate, COGUUG07_08_10_11_12, TMDLs: 12.</li> <li>• Wildhorse Creek, COARMA04a, TMDL: 1.</li> <li>• Swede/Kerr Gulch, COSPBE05, TMDL: 1.</li> <li>• Big Dry Creek, COSPBD01, TMDL: 1.</li> <li>• Boggs Creek, COARMA18a, TMDLs: 2.</li> </ul>	<p>Catchment acres committed in FFY16: 155,229. Catchment acres completed in FFY16: 128,711.</p> <p>TMDLs completed:</p> <ul style="list-style-type: none"> <li>• Big Dry Creek, COSPBD01, TMDL: 1.</li> <li>• Boggs Creek, COARMA18a, TMDLs: 2.</li> <li>• South Platte (third party led), COSPUS15, TMDL: 1.</li> </ul> <p>TMDL development delayed for programmatic reasons (please see WQ-28):</p> <ul style="list-style-type: none"> <li>• Coal/Slate, COGUUG07_08_10_11_12, TMDLs: 12.</li> </ul> <p>TMDL development stopped due to delisting:</p> <ul style="list-style-type: none"> <li>• Swede/Kerr Gulch, COSPBE05, TMDL: 1.</li> </ul>

2.2.1	WQ-28	State-wide extent of activities leading to completed TMDLs or alternative restoration approaches for impaired waters, or protection approaches for unimpaired waters.	Indicator	N/A	N/A	<p>Preliminary draft TMDL for Wildhorse Creek, COARMA04a, was produced. Revised draft TMDLs for Coal/Slate, COGUUG07_08_10_11_12 were produced as well as incorporation of additional data and participation in numerous stakeholder discussions. A decision was made to delay development of the Coal/Slate TMDL in order to allow local entities to work through implementation of a recently-executed MOU and to better align with information evaluation and process aspects associated with site-specific standards development. The TMDL workgroup collected samples in preparation for TMDL development in the Lower, Middle and Upper Arkansas, Lower Colorado and South Platte. Outreach and scoping discussions were conducted for TMDLs for: COSPUS15; COARMA18a; COSPBD01; COARMA04a; COGUUG07_08_10_11_12; COARFO01a_02ab_04; COARUA15; COLCLC02b_4a_13bc_19; and COSPBE01c. Ongoing scoping and outreach discussions for alternative approaches to address the COSPBE02 E. coli impairment and the COARLA01c_09ab selenium impairment were also conducted.</p>
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**TABLE 2: FFY16-17 NATIONAL OFFICE OF ENFORCEMENT AND COMPLIANCE ASSURANCE GUIDANCE MEASURES**

EPA G/O/S	EPA FFY16 ACS Code	EPA FFY16 Measure Text	EPA FFY16 Planning Target	Colorado FFY16-17 Goals	Colorado FFY16-17 Commitment Text	FFY16 Status and Accomplishments
5	SDWA02	<p>The primacy agency must address with a formal enforcement action or return to compliance the priority systems that have a score of 11 or higher on the ETT report. State, territory and tribal breakouts shall be indicated in the comment field of the Annual Commitment System.</p> <p>Please note: A primacy agency's success at addressing violations will be tracked by means of the quarterly ETT reports. Numerical targets may be adjusted at mid-year. While it remains the ERP's goal that all of a priority system's violations will be returned to compliance, a primacy agency has met its commitment under the SDWA ACS measure with respect to a priority system if the score for that system has been brought below, and remains below, eleven.</p>			<ol style="list-style-type: none"> <li>1. Annotate the quarterly Enforcement Targeting Tool (ETT) list created by the Enforcement Response Policy (ERP) by indicating the state actions planned for each identified priority ETT system, the projected timeframe for such actions and other relevant information that helps EPA evaluate candidates for federal enforcement. Return the annotated list to EPA within 30 days of the ETT list being posted on ECHO.</li> <li>2. Address all priority ETT systems (through formal enforcement or appropriate return to compliance) within 6 months of their being identified as priorities, with the goal of taking action before systems reach the priority status. The date that EPA makes the ETT list available on ECHO is day zero (0) of the six-month timeliness period.</li> <li>3. Provide EPA with access to state PWS files and data for EPA's oversight purposes at the state's offices. Provide EPA a copy of all final settlement agreements, both administrative and judicial, upon issuance or EPA request. Copies of actions will be provided to EPA Region 8 in electronic format unless EPA requests a hard copy. Upon request make penalty calculations and supporting documentation available to EPA.</li> </ol>	<ol style="list-style-type: none"> <li>1. This commitment was met. Colorado obtains the quarterly ETT lists when they become available, provides the specified information and returns the annotated list to EPA within 30 calendar days of receipt.</li> <li>2. Colorado believes that this commitment has been met. However, generating this measure is difficult with the ETT; as such, Colorado relies upon EPA to advise us if enforcement commitments have not been met.</li> <li>3. This commitment was met. Colorado provides, via electronic mail, a copy of all final enforcement documents to EPA at issuance. Where a penalty is issued, the associated calculations are included with the issued order.</li> </ol>

	CWA07	NPDES Compliance Monitoring Strategy (CMS) plan for each authorized state in the region and a regional plan wherever EPA direct implementation occurs (i.e., non-authorized states, territories, Indian country, pretreatment, etc.), targeting the most significant sources with potential to impact		Report	<p>Colorado's draft 2016 NPDES Compliance Monitoring Strategy (CMS) plan will be provided to EPA by August 15, 2015, and the plan will be finalized within 15 days of receiving Region 8 EPA's comments or by October 1, 2015.</p> <p>Colorado's draft 2017 NPDES Compliance Monitoring Strategy (CMS) plan will be provided to EPA by August 15, 2016, and the</p>	<p>Colorado submitted the 2016 NPDES Compliance Monitoring Strategy (CMS) plan to EPA on August 28, 2015. An extension until August 31, 2015 was requested due to response efforts to address the Gold King Mine release. This extension was granted, and the plan was finalized on October 1, 2015, when no comments were received from EPA.</p> <p>Colorado submitted the 2017 NPDES</p>
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		<p>water quality. Each CMS plan should be developed in accordance with the guidelines in Part 1 of the 2014 revised CMS. Any proposed alternative CMS plan should be provided to OECA for consultation and review by August 15, unless the region and OECA agree upon a later date.</p> <p>By December 31, 2015, provide for each state and EPA direct implementation area, a numerical end-of-year report on EPA and state inspection plan outputs from the prior year, by category and subcategory, corresponding to each of the planned CMS activities.</p> <p>The ACS commitment for each region should reflect the total number of state and regional CMS plans and end of year reports to be submitted to OECA for the year (e.g., an annual ACS commitment of 12 for a region that will submit six state and regional CMS plans and six state and regional CMS end-of-year reports).</p>			<p>plan will be finalized within 15 days of receiving Region 8 EPA's comments or by October 1, 2016.</p>	<p>Compliance Monitoring Strategy (CMS) plan to EPA on August 17, 2016. Region 8 provided comments, and a revised version was submitted August 19, 2016, which the division considers to be the final version.</p> <p>EPA HQ provided additional written comments on September 26, 2016. The division intends to respond to these comments outside of the inspection plan.</p>
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**TABLE 3: FFY16-17 REGIONAL ECOSYSTEMS PROTECTION PROGRAM GUIDANCE ELEMENTS**

EPA G/O/S	EPA FFY16 ACS Code	EPA FFY16 Measure Text	EPA FFY16 Planning Target	Colorado FFY16-17 Goals	Colorado FFY16-17 Commitment Text	FFY16 Status and Accomplishments
<b>Goal 2: Protecting America's Waters</b>						
<b>Objective 2.1 Protect Human Health</b>						
<b>Subobjective 2.1.1 Water Safe to Drink</b>						
2.1.1	N/A	State, Tribal and Federal water resource management agencies need to effectively manage all groundwater resources in a way that promotes sustainable use of the resource and protects vital ecological resources that rely on groundwater discharge.	N/A	N/A	Groundwater is managed by multiple state agencies per state Senate Bill 181.	The division participates in quarterly meetings with multiple state agencies to discuss groundwater.

**TABLE 4: FFY16-17 REGIONAL OFFICE OF ENFORCEMENT, COMPLIANCE, AND ENVIRONMENTAL JUSTICE GUIDANCE ELEMENTS**

EPA G/O/S	EPA FFY16 ACS Code	EPA FFY16 Measure Text	EPA FFY16 Planning Target	Colorado FFY16-17 Goals	Colorado FFY16-17 Commitment Text	FFY16 Status and Accomplishments
<b>Cross-Program Initiatives</b>						
N/A	N/A	States should incorporate environmental justice into their programs and document their commitments in the agreement.	N/A	N/A	The division will include consideration and evaluation for meeting environmental justice in its 2016 and 2017 Clean Water CMSs.	The division implements the department's Health Equity and Environmental Justice Policy (July 2016) and is developing guidance on how to consider EJ in enforcement.
<b>Clean Water Program</b>						
N/A	N/A	The state agency must maintain national databases.	N/A	N/A	For all domestic and industrial entities (including select stormwater sector permits) with NPDES permits, the division intends to enter permit facility	The division has continued to maintain the information that is in the national databases, and has continued to add more permit types to those databases.

					<p>data, permit event data and inspection data, including SSO Inspections, and enforcement actions into ICIS. The division commits to reenter permit facility data, permit event data and inspection data, including SSO Inspections, into ICIS for existing permitted facilities as the permits are renewed and for new facilities as the permits are issued.</p> <p>CDPHE opts to maintain ICIS-NPDES and have data for the annual non-major facilities noncompliance report pulled by EPA in lieu of annual reporting.</p>	Construction stormwater has been added to the national database, and the division is currently working on adding stormwater only sand and gravel permits.
N/A	N/A	States are asked to provide projections of program activity for regional and state inspections.	N/A	N/A	Provided in the CMS.	See description in the CMS regarding state inspection commitments.
N/A	N/A	Clean Water Act Action Plan.	N/A	N/A	The state and EPA will work together to implement the Clean Water Act Action Plan. The state and EPA will conduct planning meetings including NPDES compliance and enforcement, permitting and water quality standard personnel to identify water quality issues of greatest concern for Colorado and develop collaborative annual work plans to leverage both state and EPA resources to address these issues. A collaborative work plan will be developed prior to September 15, 2015 for FY2016.	Division staff meet quarterly with EPA, but to our knowledge, EPA has not engaged Colorado in active discussions on implementing specific plans during this FFY.
N/A	N/A	Evaluate violations and determine an appropriate response as identified in Colorado's Enforcement Management System. Where violations cause or threaten water quality impacts, determine an appropriate response consistent with priorities			<p>Continue to implement the Stormwater Enforcement Response Guide following consideration of available enforcement resources and strategic work plan priorities.</p> <p>Continue to implement the CAFO Enforcement Response Guide following consideration of available enforcement resources and strategic work plan priorities.</p>	<p>Achieved.</p> <p>Achieved.</p>

		established in the Clean Water Action Plan and associated Division work plan strategies that focus on achieving environmental outcomes.			<p>Continue to implement the Enforcement Response Guide for major/minor domestic and industrial wastewater dischargers, including the enforcement response procedures for whole effluent toxicity (WET), following consideration of available enforcement resources and strategic work plan priorities. Submit as part of the state End-of-Year Report:</p> <ul style="list-style-type: none"> <li>• A list of facilities who entered into a TIE or TRE in FY16; and</li> <li>• A list of any formal enforcement actions taken in FY16 that included WET violations. A list of any formal enforcement actions taken in FY16 that included WET violations.</li> </ul> <p>Quarterly during the fiscal year, and upon receipt from the EPA, the division will provide a response to the Quarterly Non-Compliance Report (QNCR), including an explanation of what the division is doing to respond to the facilities in Significant Non Compliance (SNC) on the QNCR.</p>	<p>Facilities that entered into a TIE or TRE:</p> <p>CO0041351 Western Sugar - PTIE.  CO0048853 Town of Wiggins - TRE.  CO0020508 City of Evans - PTIE.  CO0038024 Blue Mountain Energy - PTIE.  CO0000248 Climax - TIE.  CO0038954 Union Gold - TIE.  CO0040789 Pueblo West - PTIE.</p> <p>Formal Enforcement issued from 10/1/15 to 9/30/16 that included WET violations: CO0000003 Ouray Silver Mines (IO-160913-1).</p> <p>Achieved.</p>
N/A	N/A	EPA will perform inspections in regional and national enforcement initiatives according to national and regional guidance and the national 2014-2018 Performance Based strategies and the collaborative annual work plans. The enforcement initiatives include: Municipal Wet Weather Infrastructure; Concentrated Animal Feeding Operations (CAFOs); and Energy Extraction. EPA will	N/A	N/A	N/A	Not applicable for Colorado.



		conduct inspection follow up and enforcement for those facilities it inspects.				
N/A	N/A	States are encouraged to continue piloting the Wet Weather SNC Policy in FY16. States are also encouraged to provide feedback in FY16 to the EPA on the SNC Policy if they have piloted it in prior fiscal years.	N/A	N/A	CDPHE will continue to implement its Single Event Violation (SEV) business process in FY16 in order to generally implement the EPA Wet Weather SNC Policy. This includes entering significant (i.e., SNC) Wet Weather single event violations and enforcement actions into ICIS. CDPHE will provide updates to EPA regarding the SEV process during quarterly meetings.	<p>All significant (SNC) CAFO violations were entered into ICIS. All enforcement actions containing significant (SNC) wet weather violations were entered into ICIS.</p> <p>All wet weather SEV violations identified in FY16, based upon the criteria agreed upon in FFY15, were entered into ICIS.</p>
N/A	N/A	Continue to implement the Sanitary Sewer Overflow (SSO) Response Strategy until such time as the SSO regulations are finalized.	N/A	N/A	<p>Provide to EPA by October 15 of each year:</p> <ol style="list-style-type: none"> <li>1. An updated SSO inventory;</li> <li>2. The number of NPDES inspections targeted to evaluate SSO issues;</li> <li>3. The number and percent of SSO inspections in priority watersheds (i.e. 303(d) listed for E. coli) including the name of the priority watershed (beginning with the October 2013 report);</li> <li>4. The number and type of informal and formal enforcement actions taken in response to SSOs;</li> <li>5. The percent of enforcement actions in priority watersheds for SSOs (beginning with the October 2013 report); and</li> <li>6. A list of SSOs addressed.</li> </ol> <p>Copies of all SSO inspections will be submitted to EPA.</p>	<p>The division provided an item-specific report to the EPA by on October 12, 2016 that addressed each of these items. Please refer to the delivered report for detailed information.</p> <p>Copies of any enforcement actions addressing SSO violations were provided to EPA upon issuance.</p>
N/A	N/A	Continue to conduct the DMR Quality Assurance Program.			Follow up on all significant problems with DMR QA and provide EPA with a summary of follow-up actions in the state End-of-Year Report.	<p>29 of the labs used by the participating permittees submitted non-acceptable results.</p> <p>19 of those labs provided (through the permittees) acceptable re-tests and corrective actions.</p>

						10 of labs either failed to provide re-tests and/or corrective actions OR the applicable permittee failed to submit them.
N/A	N/A	Promote communication with EPA.	N/A	N/A	<p>Report to EPA:</p> <ul style="list-style-type: none"> <li>• Final settlement agreements; and</li> <li>• A description of any SEPs included in the state enforcement actions concluded in the federal fiscal year.</li> </ul> <p>Upon request, penalty calculations, including adjustments and BEN for state enforcement actions concluded during the fiscal year, will be made available to EPA at the state's offices.</p> <p>Quarterly meetings between EPA and the division will be held to discuss current and projected enforcement cases, inspections commitments, worked conducted in priority areas and sectors, environmental justice issues, and any other items as necessary.</p>	Achieved. All enforcement actions, including final settlement agreements, are transferred to EPA at time of issuance.
<b>Drinking Water Program</b>						
N/A	SDWA	The state agency must maintain national databases.	N/A	N/A	<ol style="list-style-type: none"> <li>1. The state commits to entering all sanitary surveys performed within 90 days of completion of field work in the previous inspection year into SDWIS/FED (by December 31 for inspections conducted in the previous FFY).</li> <li>2. Upload all violations, enforcement actions and applicable return-to-compliance codes into SDWIS the quarter following their occurrence.</li> <li>3. Ensure that all enforcement actions are linked to violations in SDWIS to avoid orphan exceptions, except for the approved orphan actions identified in guidance.</li> </ol>	<ol style="list-style-type: none"> <li>1. This commitment was met.</li> <li>2. This commitment was met. Required data are uploaded to SDWIS/FED quarterly.</li> <li>3. This commitment was met.</li> </ol>
N/A		Adopt regulations within	N/A	N/A	1. Colorado currently has primacy	1. This commitment was met. On

	SDWA	statutory deadlines or EPA approved extension schedule.			<p>enforcement authority for all existing rules. Colorado will submit primacy applications or apply for extensions before statutory deadlines. Colorado commits to maintaining and implementing regulations that are at least as stringent as the federal Safe Drinking Water Act.</p> <p>2. Colorado's Increased Readability Rulemaking (IRR) project was undertaken to improve readability of Colorado's drinking water regulations in accordance with the governor's initiative to improve efficiency and reduce unneeded regulations. The changes to the drinking water regulations that resulted from the IRR project became effective in March 2014. Because of the significant reorganization of the rewritten regulation, EPA's review generated a significant number of comments. EPA and Colorado commit to address EPA's comments and issues related to stringency.</p>	<p>November 26, 2014, Colorado submitted an application for extension of the February 2015 RTCR primacy package submittal deadline to June 30, 2015 and was granted the extension by EPA. Colorado submitted the full RTCR primacy package on June 30, 2015. Colorado is currently working to address EPA's comments on Colorado's RTCR primacy submittal.</p> <p>2. This commitment was met. Colorado continues to work with EPA regarding EPA's comments that resulted from the Increased Readability rewrite of Colorado's drinking water regulations that became effective in March 2014. Colorado implements regulations that are at least as stringent as the federal Safe Drinking Water Act. Colorado communicates on other primacy issues as appropriate. Colorado will be addressing some issues it has identified with the language of its RTCR and LCR rules in a formal rulemaking hearing in August 2017.</p>
N/A	SDWA	Implement all primary Drinking Water Regulations for which Colorado has been delegated primary enforcement authority.			<p>Colorado will report on the status of the following EPA-identified requirements of the surface water treatment rule. By November 15, provide to EPA:</p> <p>A list of all systems that are required to filter under the SWTR but are not yet filtering. Report the violations to SDWIS-FED. For systems on compliance schedules, provide the schedule from the enforcement document. If any system is not under a compliance schedule, provide a rationale and proposed action and time frame for securing compliance.</p>	<p>This commitment was met. Colorado reports violations to SDWIS-FED and provided the required list and associated information via letter to EPA on November 14, 2016.</p>

**TABLE 5: FFY16-17 COLORADO ELEMENTS**

<b>EPA G/O/S</b>	<b>EPA FFY16 ACS Code</b>	<b>EPA FFY16 Measure Text</b>	<b>EPA FFY16 Planning Target</b>	<b>Colorado FFY16-17 Goals</b>	<b>Colorado FFY16-17 Commitment Text</b>	<b>FFY16 Status and Accomplishments</b>
N/A	N/A	N/A	N/A		Colorado is not delegated to implement the biosolids program and maintains a state level program with authority over the land application of biosolids. The division will work collaboratively with EPA to implement the state program in a manner at least as stringent as federal requirements to avoid establishing conflicting requirements. EPA and the division will also coordinate oversight to recognize authorities and avoid duplication of effort as outlined in the inspection plan.	The division has continued to implement the state program and collaborate with EPA regarding their direct implementation of the federal requirements in Colorado.
N/A	N/A	N/A	N/A		<p>Colorado is not delegated to implement the pretreatment program and maintains a state level program with authority over discharges to POTWs and implements requirements in permits to implement water quality standards decisions that at times have a nexus to pretreatment implementation. The division will work collaboratively with EPA to implement the state program in a manner to avoid establishing conflicting requirements. EPA and the division will also coordinate oversight to recognize authorities and avoid duplication of effort both in permitting and in compliance oversight as outlined in the inspection plan.</p> <p>EPA will provide pretreatment language for approved and non-approved programs to CDPHE for</p>	The division has continued to implement the state program and collaborate with EPA regarding their direct implementation of the federal requirements in Colorado.

					incorporation into state-issued NPDES permits.	
N/A	N/A	N/A	N/A		As requested by Region 8 staff, CDPHE will continue to provide EPA with an electronic copy of industrial and construction stormwater permit information for permits that are not in ICIS on a quarterly basis.	With all permits in ICIS except sand and gravel stormwater only, EPA has discontinued their request for separate spreadsheets.
N/A	N/A	N/A	N/A		<p>EPA and CDPHE will coordinate on the performance by EPA of inspections in regional and national enforcement initiatives to minimize overlap and the potential for conflicting determinations.</p> <p>Colorado will begin the implementation of a new strategy to address discharges of stormwater, groundwater dewatering, and hydrostatic testing (and associated discharges from pipes and tanks) associated with construction activities. Included in the strategy will be developing and implementing in FFY2017 an alternative NPDES Compliance Monitoring Strategy meeting the approval criteria in the EPA NPDES Compliance Monitoring Strategy. Colorado will include increased CEI inspections for the construction sector from what was identified in FFY2015 and develop a compliance assistance strategy for implementation in FFY2017. Although EPA reserves the ability to conduct inspections as necessary, EPA will not include CEIs of the associated construction sector discharges as part of its inspection plan for FFY2016 except as associated with regional and national enforcement initiatives, and federal facilities.</p>	Colorado performed 142 construction sector CEI inspections in IY16, compared to 97 in IY15. In addition, 49 construction sector ROS inspections were performed. Colorado has developed an alternative NPDES Compliance Monitoring Strategy for the construction sector, which is documented in the IY17 facility inspection plan.

N/A	N/A	N/A	N/A	N/A	<p>CDPHE will continue to implement its monitoring strategy for surface and groundwater (The 10 Elements) and maintain established schedules. CDPHE will:</p> <ul style="list-style-type: none"> <li>• Develop and implement the Colorado's Water Quality Monitoring and Assessment Strategy (The 10 Elements 2015-2025).</li> <li>• Continue to complete the annual feedback loop with EPA R8 to report/discuss progress of The 10 Elements Implementation.</li> <li>• Develop the enhanced annual monitoring plan by June 30 each year.</li> <li>• Work to improve the data flow between CDPHE and EQulS.</li> <li>• Upload state water quality data into national STORET warehouse annually.</li> </ul>	<p>An enhanced annual monitoring plan was developed and implemented. The 10 Elements document and the Section 106 Categorical grant are used to guide these enhancements.</p> <p>Colorado's Water Quality Monitoring and Assessment Strategy (The 10 Elements 2015-2025) was updated and submitted to EPA for review. EDU will continue to work with the EPA coordinator to keep this document current. An enhanced annual monitoring plan was developed and implemented through the overall water quality monitoring plan in June 2015 and June 2016.</p> <p>EDU staff has made improvements in the procedures for populating EQulS in a timely and effective manner. This includes a systematic review and preparation of the data. EDU continues to look for additional ways to make improvements to the data flow process. Data collected through June 2016 has been uploaded to STORET.</p>
2.2.1	WQ-SP12.N11	Improve water quality conditions in impaired watersheds nationwide using the watershed approach.	N/A	N/A	<p>Colorado will provide:</p> <ul style="list-style-type: none"> <li>• River, stream and lake segmentation will be available in a GIS Environment.</li> <li>• Information from the 303(d) and M&amp;E lists will be managed in a database that can be linked to GIS information.</li> </ul>	<p>Colorado continues to work with EPA to make the reach indexed NHD coverage as complete and accurate as possible as basin regulations are revised. Colorado has developed/updated the GIS coverage of the 2014/16 303(d) List of Impaired Waters.</p> <p>Colorado is developing a new assessment database in a GIS Environment. The 2014/2016 Integrated Report was submitted using phase I of this database. Colorado will begin working on Phase II of this project through an Exchange Network Grant.</p>
N/A	N/A	N/A	N/A	N/A	<p>CDPHE will continue to develop a comprehensive integrated assessment of the conditions of Colorado's waters</p>	<p>The process to develop the 2014/2016 Section 303(d) Listing Methodology was completed in March 2015 with significant</p>

					<p>consistent with 305(b) and 303(d) of the Clean Water Act. CDPHE will:</p> <ul style="list-style-type: none"> <li>• Develop the 2014/2016 303(d) List of Impaired Waters.</li> <li>• Develop the 2014/2016 Integrated Report.</li> </ul>	<p>input from stakeholders. The result of this process is the 2016 303(d) Listing Methodology.</p> <p>The rulemaking hearing to adopt Colorado's 303(d) List was completed in December 2015.</p> <p>Colorado's 2014/2016 Integrated Report was submitted to EPA on 4/1/2016.</p>
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## 5.0 Hazardous Materials and Waste Management Division FY2016 Status and Accomplishments

### Hazardous Waste Program

**Mission:** To ensure that all hazardous wastes are handled and managed in ways that protects the public and environment from the moment of waste generation until final disposal or destruction.

<b>HW I</b> <b>General Program Management and Partnership</b>			
EPA 2014 - 2018 Strategic Plan Goal 3: Cleaning Up Our Communities and Advancing Sustainable Development			
HW 1: Long Term Goal Implement an efficient and effective hazardous waste regulatory program with adequate fiscal and personnel resources.			
Short Term Goals	Objective	Measures	FY2016 Status and Accomplishments
HW 2: Short Term Goal - Develop a partnership between the State and EPA that improves the program. Support this partnership and achieve efficient implementation of a hazardous waste program that reflects the goals and objectives of both the State and EPA including appropriate work sharing.	<b>Authorization</b> The State will pursue timely and complete authorization for new mandatory rules and progress toward overall authorization goals.	FY16: <ul style="list-style-type: none"> <li>RCRA Cluster XXIV (SPA 35)</li> </ul>	RCRA XXIV - SPA 35 consists of 3 Checklists: {Checklist 233 - Revisions to the Definition of Solid Waste}; {Checklist 234 - Vacatur of the Comparable Fuels Rule and the Gasification Rule}; and {Checklist 235 - Disposal of Coal Combustion Residuals from Electric Utilities}. Colorado adopted state analogs to the more stringent federal provisions of Checklist 233 on February 16, 2016 {effective March 30, 2016}. Colorado had not adopted rules similar to the federal comparable fuels and gasification rules. Therefore, the vacatur of Checklist 234 had no effect on the authorization status in Colorado, and no modification to the state program was necessary. Checklist 235 is an optional rule, and Colorado has not adopted state analogs to this rule at this time.
		FY17: <ul style="list-style-type: none"> <li>RCRA Cluster XXV (SPA 36)</li> </ul>	



HW I  
General Program Management and Partnership

	<i>EPA will work toward a timely review of authorization applications submitted and improve the overall pace of authorization and authorization flexibility.</i>		
	<b>Program Improvement</b> The State will continue to evaluate the Hazardous Waste Control Program seeking to make further program improvements as appropriate.	Continued implementation of self-certification programs and GAP site visits.	Done
	<b>Data Management</b> The State will maintain timely, accurate, and complete data in RCRAInfo. Note: The State is currently a direct user of RCRA Info and translates only new evaluation data. Colorado has applied for an Exchange Network grant to translate compliance data.	The State will have data in RCRA Info by the 15 <sup>th</sup> day of the month following activity.	Done
		The State will ensure that data is reported to RCRAInfo accurately and completely reflecting the status of the RCRA universe.	Done
	The State will continue to work with EPA to ensure that RCRAInfo reports used to track the progress of activity are accurate.	RCRAInfo reporting will include all key measures of operating, closure and post-closure permitting; corrective action; and compliance monitoring and enforcement components of the HW program at a level sufficient to support program evaluation efforts.	Done
	<i>EPA will assist the State in assuring that the RCRAInfo data is current and accurate and reflects EPA HW activities as well as State activities.</i>		
	<i>EPA will work with the State to resolve "universe" issues .</i>		
	<i>EPA will provide training and technical assistance when requested.</i>		
	The State and EPA will jointly create and generate RCRAInfo reports that are of benefit to the program.		Done
	<b>Public Involvement.</b> The State will continue to involve the public as required by statute and regulation or MOA. This includes a system to respond to requests for information and complaints or concerns from the public.	CDPHE will: <ul style="list-style-type: none"> <li>• Log all complaints and track response and resolution of all complaints.</li> <li>• Log all requests for information and track response and resolution.</li> </ul>	Done

HW I  
General Program Management and Partnership

	<b>Resource Level</b> The State will maintain adequate resources to implement the program.		Done
	<b>Financial Accountability</b> The State will adequately account for grant dollars.		Done
	<b>Program Guidance / Agreements</b> The State and EPA will jointly develop and maintain the MOA/EA, Quality Assurance Plan and other operating Guidance.		Done
	<b>Strategic Planning</b> The State and EPA will jointly plan and prioritize program goals, objectives and activities that address state and federal priorities and initiatives. Activities include PPA development, Annual National targets, inspection strategies, planning meetings, etc.	EPA and the State will hold meetings to share information, identify and solve problems, and engage in short term planning efforts.	Done as necessary
	<b>Coordination of Joint Activities</b> The State and EPA will maintain a high level of cooperation between State and EPA staff to assure successful and effective administration of the program including evaluation of desirable technical support.	EPA and the State will hold meetings to share information, identify and solve problems, and engage in short term planning efforts.	Done as necessary
	<b>Program Communication</b> The State and EPA will maintain frequent and open communication on routine matters, changes in program capability, legislation and resources levels, emergency situations and other key activities as described in the MOA.	Examples of key activities include final decisions re: variances / waivers, enforcement actions, biennial report summarization, final permits, etc.	Done as necessary
		EPA and the State will hold meetings to share information, identify and solve problems, and engage in short term planning efforts.	Done as necessary
	<b>Training and Technical Assistance</b> The State and EPA will jointly identify training and technical assistance needs.	The State will develop and implement a staff training program that results in well-qualified staff and ensures that mandatory training needs are met.	Done
		<i>EPA will make training and technical assistance available to the State and will work toward improving the capability to provide high quality training and technical assistance. Technical assistance will be made available through EPA staff, EPA research labs and EPA contractors.</i>	

**HW I**  
General Program Management and Partnership

	EPA will conduct oversight of State program activities as appropriate.		
HW 3: Short Term Goal - The State and EPA will work together to determine progress in identifying and achieving environmental indicators. Actions necessary to achieve environmental indicators will be planned and tracked. Determination documentation for those facilities "under control" will be provided by the State to EPA; EPA will, in turn, provide guidance for what constitutes "adequate documentation."		See "Table HW IV" below.	Done

**HW II**  
Operating Permit and Closure/Post Closure Permit Goals

EPA 2014 - 2018 Strategic Plan Goal 3: Cleaning Up Our Communities, Objective 3.2: Preserve Land			
<p>HW Operation <b>Permit</b> Universe Information: There is only one (1) commercial land disposal facility operating within the State; as of the end of FY16, this facility has the required permit. There are seven (7) operating commercial and non-commercial treatment / storage facilities operating in the State; as of the end of FY16, all required operating permits have been issued, including a RD&amp;D Permit for the Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP) facility. One unit at 1 facility (storage igloos at PCD) is deemed "interim status," but will be closed before it is permitted. Currently, there are no (0) operating combustion units within the State.</p>			
Short Term Goals	Objective	Measures	FY2016 Status and Accomplishments
HW 4: Short Term Goal: Issue and maintain operating permits, closure plans, and post-closure permits that include conditions necessary to assure that hazardous wastes are managed in ways that will protect public health and environmental quality. Ensure protection of public health and the environment by inspecting facilities to determine their compliance with permit or closure plan conditions.	<b>Operating Permit Activities.</b> The State will demonstrate progress toward achieving operating permits (OP) program goals, objectives and activities identified in jointly developed strategies that reflect State and EPA OP priorities.	The Key Measure of the OP process is: • OP200 - final determinations / renewal determinations. Supporting Measures include: • OP100 - review activities resulting in a determination or notice of deficiency; • OP240 - permit modifications; and • Emergency Permits.	
		<b>FY16:</b> • No (0) treatment, storage and disposal facilities needs to obtain an operating permit final determination. • Two (2) TSD facilities are anticipated to obtain a permit renewal.	• No (0) treatment, storage and disposal facilities needs to obtain an operating permit final determination. • No (0) TSD facilities received a final permit renewal

HW II Operating Permit and Closure/Post Closure Permit Goals			
		<b>FY17:</b> <ul style="list-style-type: none"> <li>No (0) treatment, storage and disposal facility needs to obtain an operating permit final determination.</li> <li>No (0) TSD facility is anticipated to obtain a permit renewal.</li> </ul>	
	Permit maintenance; permit modifications, and emergency permits will be processed as required.	Permit modifications and emergency permits will be processed as received and required.	Done
	<i>EPA will conduct operating permit activities according to the joint permitting process described in the authorization memorandum of agreement.</i>		
	<i>EPA will provide technical assistance where requested.</i>		
<b>HW Closure Universe Information:</b> There are or have been thirty-three (33) treatment/storage/disposal facilities with land disposal units on the closure track, and seventy-six (76) land disposal units at these facilities. All of the 76 land disposal units have approved closure plans. Three (3) still need closure certification and agency verifications (DuPont, and Fruita-2). Sixty-one (61) treatment/storage/disposal facilities have treatment or storage units on the closure track. Most of these treatment or storage units have had their closure plans approved. The only units without approved closure plans are units that have been referred to the CERCLA remedial process. All four (4) treatment/storage/disposal facilities with combustion units have completed the closure process. One (1) former operating TSD (Arvada Treatment Center) has stopped operating and been abandoned and must complete closure; the facility has an approved closure plan.			
HW 4 (cont'd) Issue operating permits	<b>Closure Activities -</b> The State will demonstrate progress toward achieving closure (CL) program goals.	The Key Measure for closure activities is: <ul style="list-style-type: none"> <li>CL360 - Closure plan approval.</li> <li>CL380 - Closure verification</li> <li>CL370 - Closure certification</li> </ul>	
		<b>FY16:</b> <ul style="list-style-type: none"> <li>No (0) treatment / storage units will receive closure plan approval</li> <li>One (1) treatment / storage unit will receive closure verification</li> <li>Two (2) closure certifications will be approved</li> </ul>	<ul style="list-style-type: none"> <li>No (0) treatment / storage units received a closure plan approval</li> <li>No(0) treatment / storage unit received a closure verification</li> <li>No (0) closure certifications were approved</li> </ul>
		<b>FY17:</b> <ul style="list-style-type: none"> <li>No (0) treatment / storage units will receive closure plan approval</li> <li>Two (2) treatment / storage units will receive closure verification</li> </ul> One (1) closure certification will be approved	

<b>HW II</b> <b>Operating Permit and Closure/Post Closure Permit Goals</b>			
	<i>EPA will participate in closure determinations through joint activities and providing technical assistance where requested</i>		
<b>HW Post Closure Universe Information</b> There are twenty-seven (27) facilities in the post-closure universe in the state as of the end of FY16. The Division has lead for all of these facilities excluding three (3) superfund sites. All required post-closure permits or other approved controls are in place.			
Short Term Goals	Objective	Measures	FY2016 Status and Accomplishments
HW 4 (cont'd) Issue operating permits	<b>Post-Closure Activities -</b> The State will demonstrate program progress toward achieving post-closure (P-C) program goals, objectives and activities that reflect State and EPA P-C priorities.	The Key Measure is: • PC200 - final post-closure permit determinations/ issuances. Post-Closure plan approvals, or other approved controls for all applicable units at facilities in the GPRA post-closure universe. Supporting measures are: • PC300 - other final post-closure permit determinations / issuances. • PC010 - post closure permit call-ins.	
		<b>FY16:</b> • One (1) post-closure permit will be renewed • One (1) other final or other post-closure permit determination / issuance is anticipated. • No (0) post-closure permit call-ins are expected.	• One (1) post-closure permit was renewed • One (1) other final or other post-closure permit determination / issuance was achieved • No (0) post-closure permit call-ins were conducted
		<b>FY17:</b> • One (1) post-closure permits will be renewed • No (0) other final or other post-closure permit determination / issuance is anticipated. • No (0) post-closure permit call-ins are expected.	
	<i>EPA will participate through joint activities and by providing technical assistance as requested.</i>		
HW 5: Short term Goal Develop mechanisms to improve state-to-state cooperation on permitting of promising innovative waste remediation technologies and the development of such technologies.	HW 2.1.3 Participate in Interstate Technology and Regulatory Cooperation Workgroup.		Done

<b>HW II</b> <b>Operating Permit and Closure/Post Closure Permit Goals</b>			
EPA will conduct oversight of State operating, closure, and post-closure permitting activities.			

<b>HW III</b> <b>Compliance Monitoring and Enforcement Goals</b>			
EPA 2014 - 2018 Strategic Plan Goal 3: Cleaning Up Our Communities Goal 5: Enforcing Environmental Laws, Objective 5.1			
<b>HW 6: Long Term Goal</b> Ensure protection of public health and environment through achieving compliance of regulated facilities by implementation of an effective monitoring and enforcement program. Detect and deter violations through inspections and enforcement actions and promote compliance with hazardous waste requirements.			
<b>Outcome Measures:</b> Return to compliance after enforcement is an important measure of the effectiveness for the enforcement and inspection program. Informal and formal enforcement actions issued in the reporting year are used as the basis for this measure. The measure is the percentage of compliance requirements that are met during the reporting year that they fall due. This measure is expected to be 80% or more in FY16.			
Short Term Goals	Objective	Measures	FY2016 Status and Accomplishments
<b>HW 6.1: Short Term Goal</b> Ensure that annual inspection requirements are achieved and that inspections are of high quality. Inspections of treatment, storage and disposal facilities will meet the statutory requirements.	All federal and state TSDs will be inspected every year. Inspections of state TSDs will be conducted jointly with EPA, with EPA acting as the lead in the inspections.	During FY16 and FY17, 100% of the compliance inspections required by statute will be conducted.	100% of all required 2016 inspections were conducted.
	All active land disposal facilities will be inspected every year. All those in post-closure will be inspected every other year (every two years).	CDPHE will submit to EPA, by November 15 of each year, an inspection work plan for the upcoming federal fiscal year, which includes the names of TSD and LQG facilities.	2016 inspection schedule was submitted to EPA before 11/15/2015.
	Ground water monitoring inspections will be conducted at active land disposal facilities that have not had such inspections in the previous two years (every three years) or as agreed to by the State and EPA.	A minimum of twenty percent (20%) of all large quantity generators (LQGs) will be inspected during each fiscal year and 100% of all LQGs will be inspected every 5 years.	100% of LQGs who persisted in the universe over a 5 year period were inspected.
	All treatment and storage facilities will be inspected every other year (every two years).		
	Other Priority Inspection Areas <ul style="list-style-type: none"> <li>- Permit Evaders</li> <li>- Surface Impoundments</li> <li>- Mineral processors</li> <li>- Waste Analysis Plans at commercial TSDFs</li> </ul>		

HW III  
Compliance Monitoring and Enforcement Goals

	<i>The Region commits to work with the State to identify 2 TSDFs and 2 LQGs which the Region will inspect as lead. The LQGs will be identified from the national and regional priority sectors, illegal recyclers, entities with violations in more than one state, environmentally sensitive environment, unpermitted surface impoundments, improper medical waste disposal, coal combustion waste facilities, areas of environmental justice concerns and particularly recalcitrant violators.</i>		
HW 6.2: Short Term Goal Maintain a high level of expertise to ensure that quality inspections consistent with national guidance are being conducted.	High quality inspections will be conducted in accordance with national guidance to be reviewed jointly by the State and EPA in the annual assessment.	EPA State Review Framework Evaluation	Done
<i>EPA Region 8 will continue to implement the CERCLA Off-Site Rule (OSR). EPA will continue to coordinate closely with the state in this implementation.</i>			
HW 6.3: Short Term Goal Promote compliance of regulated facilities by ensuring that enforcement actions are timely. Actions necessary to assure return to compliance (RTC) and consistent with the Enforcement Response Policy will be documented.	Informal actions will be taken as appropriate within the timeframes established in the HMWMD Enforcement Response Policy.	Compliance Advisories (informal enforcement mechanism) will be used as appropriate and consistent with the State's Enforcement Response Policy.	Done
	Formal enforcement actions, such as administrative orders, judicial referrals and referrals to EPA will be taken as appropriate and within the time frames established in the MOA and the HMWMD Enforcement Response Policy.	Formal enforcement actions will include the use of compliance schedules, assessment of penalties, and escalation of enforcement action as appropriate for the violation and consistent with the HMWMD Enforcement Response Policy.	Done
	Enforcement follow-up and other activities will be conducted in accordance with the HMWMD Enforcement Response Policy.	Follow-up will include compliance schedules, follow-up inspections, and compliance assistance and / or escalation of enforcement responses as appropriate and consistent with the HMWMD Enforcement Response Policy.	Done
	<i>The State and Region 8 will work together to move closure/post closure and corrective action facilities to compliance with financial assurance requirements through the development of enforcement cases which may be taken by either the State or EPA. Region 8 will be the lead for entities with facilities in more than one state.</i>	The State and EPA will share any information that is collected regarding the environment and / or public health benefits achieved through inspection and enforcement activities.	Done

HW III Compliance Monitoring and Enforcement Goals			
	<i>Other national enforcement priority areas: Region 8 will continue to support the multimedia Energy Extraction initiative</i>		
<i>EPA and the State will work jointly to assure that the review of enforcement actions is timely and appropriate in accordance with the Enforcement Response Policy. Actions necessary to assure return to compliance (RTC) and consistent with the Enforcement Response Policy will be documented.</i>	<i>EPA will conduct mid-year and end of year file reviews to document the progress CDPHE has made on timeliness of enforcement actions and the appropriate assessment and collection of penalties, including gravity, economic benefit and multi-day penalties.</i>	The State and EPA will have coordination meetings to discuss the compliance and enforcement program. EPA's State Review Framework Evaluation will be used to judge the quality of HMWMD's Program.	Done as necessary

HW IV Corrective Action Goals			
EPA 2014 - 2018 Strategic Plan Goal 3: Cleaning Up Our Communities, Objective 3.3: Restore Land			
Corrective Action GPRA Universe Information: There are 44 high-priority facilities on Colorado's GPRA 2020 corrective action baseline. Of those facilities, all have been assessed - the RFA is complete (CA050), and all have been prioritized (CA075), according to RCRAInfo.			
Short Term Goals	Objective	Measures	FY2016 Status and Accomplishments
HW 7: Long Term Goal Clean up releases of hazardous waste that threaten the public or the environment.	<b>Corrective Action Identification and Ranking</b> The State will demonstrate progress toward achieving corrective action program identification ranking goals, objectives and activities that reflect State and EPA priorities.	The Key Measures for corrective action progress are: <ul style="list-style-type: none"> <li>• CA 050 - assessment completed;</li> <li>• CA 070 - determination of need for RFI; and</li> <li>• CA 075 - corrective action universe ranking.</li> </ul>	
		<b>FY16 and FY 17:</b> All assessment and ranking activities have been completed; therefore, no activities are planned	<b>No (0) assessment, determinations or ranking activities were completed</b>
	<i>EPA will provide technical assistance in identification and ranking activities as appropriate.</i>		
GPRA Corrective Action Universe Information: There are forty-four (44) facilities on Colorado's GPRA 2020 Corrective Action Baseline. All 44 have had the CA process started with at least a RCRA Facility Investigation (RFI) imposed (CA100) for at least one area. Thirty-seven (37) have had RFIs approved (CA200) for at least one area. Thirty-five (35) have had a remedy selected (CA400) for at least one area. Thirty (30) have had a remedy construction completed (CA550). One (1) GPRA facility has achieved Corrective Action Performance Standards Attained (CA900); fifteen (15) have achieved Corrective Action Process Terminated (CA999).			
HW 7: Long Term Goal Clean up releases	<b>Corrective Action Progress</b> The State and EPA will demonstrate progress toward achieving corrective action program goals, objectives and	The Key Measures for Corrective Action are the following activities: <ul style="list-style-type: none"> <li>• CA100 - Initial RCRA Facility Investigation (RFI) imposed;</li> <li>• CA100 - Subsequent RFI imposed;</li> <li>• CA150 - RFI work plan approved;</li> </ul>	



HW IV Corrective Action Goals			
	activities that reflect State and EPA priorities. Emphasis will be placed on high-ranked facilities.	<ul style="list-style-type: none"> <li>• CA200 - RFI approved</li> <li>• CA300 - Corrective Measure Study (CMS) work plan approved;</li> <li>• CA350 - CMS approved;</li> <li>• CA400 - Remedy Selection</li> <li>• CA500 - Corrective Measure (CM) work plan approved;</li> <li>• CA550 - Corrective Measures implemented (CMI), construction completed</li> <li>• CA999 - Corrective Action complete at the facility level</li> </ul>	
HW 7: Long Term Goal Clean up releases ....	Corrective Action Progress (Cont'd)	<b>FY16:</b> <ul style="list-style-type: none"> <li>• No (0) initial RFIs imposed.</li> <li>• No (0) subsequent RFIs imposed.</li> <li>• No (0) RFI work plans approved.</li> <li>• Six (6) RFI report approved.</li> <li>• Twelve (12) CMS work plans approved.</li> <li>• Six (6) CMS reports approved.</li> <li>• One (1) remedy selected at the unit level.</li> <li>• No (0) remedies selected at the facility level.</li> <li>• Three (3) CM work plans approved.</li> <li>• Four (4) CMI construction completed at the unit level.</li> <li>• No (0) CMI construction completed at the facility level.</li> <li>• No (0) corrective action completed at the facility level</li> </ul>	<ul style="list-style-type: none"> <li>• Two (2) initial RFIs imposed.</li> <li>• No (0) subsequent RFIs imposed.</li> <li>• Five (5) RFI work plans approved.</li> <li>• Fourteen (14) RFI reports approved.</li> <li>• Nine (9) CMS work plans approved.</li> <li>• Four (4) CMS reports approved.</li> <li>• Five (5) remedies selected at the unit level.</li> <li>• No (0) remedies selected at the facility level.</li> <li>• Four (4) CM work plans approved.</li> <li>• Seven (7) CMI construction completed at the unit level.</li> <li>• No (0) CMI construction completed at the facility level.</li> <li>• No (0) corrective action completed at the facility level</li> </ul>
		<b>FY17:</b> <ul style="list-style-type: none"> <li>• No (0) initial RFIs imposed.</li> <li>• No (0) subsequent RFIs imposed.</li> <li>• One (1) RFI work plans approved.</li> <li>• No (0) RFI reports approved.</li> <li>• No (0) CMS work plans approved.</li> <li>• Ten (10) CMS reports approved.</li> <li>• Eleven (11) remedy selected at the unit level.</li> <li>• No (0) remedies selected at the facility level.</li> <li>• Five (5) CM work plans approved.</li> <li>• Two (2) CMI construction completed at the unit level.</li> <li>• No (0) CMI construction completed at the facility level.</li> <li>• No (0) corrective action completed at the facility level.</li> </ul>	

<b>HW IV</b> <b>Corrective Action Goals</b>			
	<i>EPA will conduct corrective action activities at EPA-lead facilities and will conduct joint activities and provide technical assistance, as appropriate. Specifically EPA has assumed the lead for corrective action at two (2) facilities, both are anticipated to become a state- lead facility.</i>		
<b>Stabilization Universe Information</b> Twenty-three (23) of the forty-four (44) high-ranked CA baseline universe facilities are in the stabilization universe. That is, the stabilization measures evaluation (CA225) resulted in a finding that stabilization measures are appropriate. Stabilization measures have been imposed (CA600) at <u>twenty-two (22) of the facilities</u> . Stabilization construction completion (CA650) has occurred <u>at seventeen (17) facilities</u> .			
HW 7: Long Term Goal Clean up releases ....	<b>Stabilization Activities (Interim Measures) -</b> The State will demonstrate progress towards achieving stabilization program goals, objectives and activities that reflect State and EPA priorities. Emphasis will be on increasing the number of facilities at which current human exposures and releases to ground water have been controlled and on facilities that are ranked as “high”.	The Key Measures are the following stabilization activities: <ul style="list-style-type: none"> <li>• CA225 - Stabilization Measures Evaluation</li> <li>• CA600 - Stabilization Implemented</li> <li>• CA650 - Stabilization Construction completed</li> </ul>	
	Stabilization Activities (Interim Measures) Cont'd	<b>FY16:</b> <ul style="list-style-type: none"> <li>• No (0) Stabilization Measure Evaluations.</li> <li>• One (1) Stabilization Implemented.</li> <li>• No (0) Stabilization Construction completed.</li> </ul>	<ul style="list-style-type: none"> <li>• No (0) Stabilization Measure Evaluations.</li> <li>• One (1) Stabilization Implemented.</li> <li>• Five (5) Stabilization Construction completed.</li> </ul>
		<b>FY17:</b> <ul style="list-style-type: none"> <li>• No (0) Stabilization Measure Evaluations.</li> <li>• No (0) Stabilization Implemented.</li> <li>• No (0) Stabilization Construction completed.</li> </ul>	
	<i>EPA will conduct Stabilization activities at EPA-lead facilities and will conduct joint activities and provide technical assistance, as appropriate.</i>		
<b>HW Indicator 2</b> The State will continue to evaluate the number and percentage of facilities with human exposures under control (CA725). Note: The definition of “under control” is in USEPA Region 8 RCRAInfo Definition Table, and in EPA guidance (2/5/99) for RCRA corrective action environmental indicators.			

**HW IV**  
**Corrective Action Goals**

**GPRA Corrective Action Universe Information:**

There are Forty-four (44) facilities in the 2020 Corrective Action Universe. All 44 of these facilities are under control with regard to human exposure as of the end of FY16.

HW 7: Long Term Goal Clean up releases ....	The state will work to get human exposure under control at facilities subject to corrective action. Documentation will be submitted to EPA for all facilities that have achieved this environmental indicator.	The Key Output is the number of GPRA Baseline facilities at which human exposures are under control (CA725). The following Key Outputs are planned: <b>FY16 and 17:</b> <ul style="list-style-type: none"> <li>• <b>No (0) facility is projected to achieve this environmental indicator</b></li> </ul>	<b>No (0) facility achieved this environmental indicator</b>
	The State will update the facility-specific strategies, identifying when each high -ranked corrective action facility presently not under control is anticipated to meet this environmental indicator and to develop plans to achieve all projected Environmental Indicators.	The cumulative total in Colorado at the conclusion of FY16 and FY17 will be 100%.	The cumulative total in Colorado at the conclusion of FY16 was 100%.
<i>EPA has a national goal of having human exposures controlled at 95% of the GPRA Baseline facilities by FY 2005 (HW-11-24)</i>	<i>EPA will work to get human exposures under control at EPA-lead facilities and will provide technical assistance as appropriate.</i>		
	<i>EPA will update facility-specific strategies, identifying when each high -ranked corrective action facility presently not under control is anticipated to meet this environmental indicator and to develop plans to achieve all projected Environmental Indicators.</i>		

**HW Indicator 3**

The State will continue to evaluate the number and percentage of facilities with ground water releases under control (**CA750**).

Note: The definition of “under control” is in USEPA Region 8 RCRAInfo Definition Table, and in EPA guidance (2/5/99) for RCRA corrective action environmental indicators.

**GPRA Corrective Action Universe Information:**

There are Forty-four (44) facilities in the 2020 Corrective Action Universe. All 44 of these facilities are under control with regard to ground water releases as of the end of FY16.

HW IV Corrective Action Goals			
HW 7: Long Term Goal Clean up releases ....	The state will work to get the migration of contaminated ground water under control at facilities subject to corrective action. Documentation will be submitted to EPA for all facilities that have achieved this environmental indicator.	The Key Measure is the number of GPRA Baseline facilities at which migration of contaminated ground water are under control (CA750). The following Key Outputs are planned:  <b>FY16:</b> <ul style="list-style-type: none"> <li>No (0) facility is projected to achieve this environmental indicator.</li> </ul> <b>FY17:</b> <ul style="list-style-type: none"> <li>One (1) facility is projected to achieve this environmental indicator</li> </ul>	One (1) facility achieved this environmental indicator
	The State will update the facility-specific strategies, identifying when each high -ranked corrective action facility presently not under control is anticipated to meet this environmental indicator and to develop plans to achieve all projected Environmental Indicators.	The cumulative total in Colorado at the conclusion of FY16 will be 100%.	The cumulative total in Colorado at the conclusion of FY16 was 100%

HW V Pollution Prevention & Compliance Assistance Goals			
EPA 2014 - 2018 Strategic Plan Goal 3: Cleaning Up Our Communities, Objective 3.2: Preserve Land			
HW 9: Long Term Goal Implement a compliance assistance program that increases the compliance rate within HMWMD's regulated communities.			
Short Term Goals	Objective	Measures	FY2016 Status and Accomplishments
	A schedule of quarterly compliance assistance workshops and training sessions will be established. Trainings provide compliance guidance to attendees.	Presentation of hazardous waste compliance assistance seminars, workshops, and/or training sessions: <ul style="list-style-type: none"> <li>Estimate 15 to 20 sessions with 1000 attendees each federal fiscal year.</li> </ul>	Provided 8 trainings in FY16 with 500 attendees
	Site visits will be made to provide compliance assistance to selected individual businesses that request assistance or that are identified during routine hazardous waste inspections.	Implementation of the Generator Assistance Program (GAP).	Performed 19 GAP site visits.
HW 10: Long Term Goal Implement a pollution prevention program that encourages reduction of the amount and toxicity of wastes generated through waste minimization, treatment, and recycling of hazardous			

<b>HW V</b> <b>Pollution Prevention &amp; Compliance Assistance Goals</b>			
wastes, thereby reducing the risks associated with waste management. Methods for tracking and quantifying the accomplishments of these efforts will continue to be developed.			
	Pollution prevention training will be incorporated into compliance assistance trainings, as appropriate.	Done in conjunction with compliance assistance.	Done
	Distribute pollution prevention information and guidance documents in response to specific requests.	Done in conjunction with compliance assistance and inspections.	Done
<b>HW 11: Long Term Goal</b> Integrate compliance assistance, waste minimization, pollution prevention, waste diversion, and recycling into all program activities and support waste minimization efforts statewide.			
	Develop and implement compliance assistance elements within the inspection and enforcement processes.	Provide direct compliance assistance in inspections: <ul style="list-style-type: none"> <li>Estimate 20 inspections in each federal fiscal year.</li> </ul>	Compliance assistance was delivered on 113 of the 263 inspections conducted in 2016.
	Distribute pollution prevention information and guidance documents in response to specific requests.	Done in conjunction with compliance assistance.	Done
	Support and maintain the technical assistance phone system.	<ul style="list-style-type: none"> <li>Estimate 3000 responses during each federal fiscal year.</li> </ul>	Responded to 1,521 calls and 364 emails.
	On the CDPHE homepage, provide updates in the hazardous waste activities and access to current compliance assistance and pollution prevention materials and documents.	<ul style="list-style-type: none"> <li>Maintain homepage information and track usage by Division customers</li> <li>Estimate over 1,000,000 contacts during each federal fiscal year.</li> </ul>	The Hazardous Waste Program page on the Division website had 7,848 hits in 2016.
<i>EPA has a goal of building Sustainable Materials Management (SMM) capacity in all Region 8 states.</i>	<i>EPA will provide SMM assistance to Colorado, as requested priorities arise.</i>	<i>Reduction of Waste disposed.</i>	
<i>EPA will continue to support the environmental Compliance Assistance Center (ECAC) for all auto service businesses that request compliance assistance information. The center is based in Colorado and is available to all states.</i>			

## State Indoor Radon Grant

**Mission:** The State Indoor Radon Grant is used to develop effective, efficient activities that increase the awareness of radon health risks in Colorado. Emphasis is placed on raising awareness of radon issues, increasing testing rates and encouraging mitigation in response to elevated radon levels. Homeowners, local governments, realtors and builders will continue to

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be target groups for information about radon testing and radon-resistant new construction. Distribution of funding to local health departments, cooperative extension offices and other entities at the local level will ensure coverage throughout Colorado. Annual surveys will be conducted on measurement results, mitigation providers, builders and schools as requested by the EPA Radon Reinivigation Strategy.

State Indoor Radon Grant Goals				
EPA 2014 - 2018 Strategic Plan Goal 1: Taking Action on Climate Change and Ensuring Air Quality, Objective 1.4: Minimize Exposure to Radiation				
RA 1: Long-term goal Increase radon awareness. Assure that Colorado homes continue to be tested for radon, with intervention to reduce radon risk if a test result calls for action.				
Short-term goal	Objectives	Performance measures	Milestones	FY2016 Status and Accomplishments
RA 1.1 Increase awareness, testing and mitigation of homes with elevated radon levels. Work toward adoption of more radon-resistant building codes.	Contract through the grant for products and services that improve radon awareness, testing, and mitigation in Colorado.	Number and/or percent of homes that have been mitigated for elevated radon levels.	Number of homes that have been mitigated for radon.	It is estimated that 7,500 homes in Colorado were mitigated for radon in 2016
	Provide current information to homeowners, real estate agents, buyers, sellers, and builders about radon testing and mitigation.	Percentage of homes tested for radon.	Number of homes that have been tested for radon.	It is estimated that 30,000 homes were tested for radon in Colorado in 2016
RA 1.2 Strengthen radon public health activities in all of Colorado's counties (all counties are zone 1-high potential).	Work with volunteer municipalities and counties to adopt construction standards to reduce radon in residential, school, and public buildings.	Number of homes in each county that have been built using radon-resistant features.	Number of homes and schools built radon resistant and number of local governments adopting radon resistant new construction building codes	It is estimated that 600 homes, schools and other buildings were built with RRNC in 2016. Twenty six (26) cities and/or counties in Colorado have adopted RRNC building codes.
	<i>EPA: EPA will offer assistance in public outreach efforts, help coordinate activities of the state and the Western Regional Radon Training Center, provide support for the contracts with counties and partners that have been established and offer manpower at events.</i>			
	<i>EPA: EPA will also forward relevant information from HQ or other entities to the state. Guidance will be provided as needed on the information.</i>			
	<i>EPA: EPA will also provide support to the state in the creation of radon-related policy statements or programs such as the radon proficiency program.</i>			

State Indoor Radon Grant Goals				
	EPA: EPA will review annual reports submitted by the state and offer a response that assures that the work plan agreed to is being followed and goals are being met.			

## Additional Information

### 1. Resources and Skill Mix (1.4)

The total fiscal budget for the Colorado program for FY 2016 was \$5,081,247 and included the following resources: federal grants - \$3,340,503 (includes both the EPA grant and grants from other federal agencies); and hazardous waste fees - \$1,740,744. These funds covered a total of 31.4 FTE for the HWP as well as Department indirect and our operating budget. The funds and the FTE were spread across the primary areas of the RCRA Program as follows:

Program Area	Budget	% of budget	FTE
Safe Waste Mgmt	\$ 1,168,691	23%	6.9
Corrective Action	\$ 1,490,504	29%	8.8
Compliance Assurance	\$ 1,016,253	20%	6.0
Administration	\$ 906,687	18%	6.7
Attorney General Office	\$ 499,112	10%	3.0
Total	\$ 5,081,247	100%	31.4

In FY 2009, the Solid and Hazardous Waste Commission passed an increase in Colorado's hazardous waste fees. The overall fee increase was about 15% with some fees increasing more and some less. By late 2010, however, because of higher-than-anticipated revenues and lower-than-expected costs, it was clear that the Department needed to decrease the fees. Effective January 1, 2011, the Commission decreased the fees by 12 percent for a period of one year (all of calendar year 2011). By late 2011, fee revenues were still higher than necessary and the Commission decreased the fees by a further 18 percent for calendar year 2012, bringing the total fee decrease to 30 percent. The 30 percent fee decrease lasted until July 1, 2014, at which time the 2009 fee rates were mostly restored. We anticipate that these fee rates should provide adequate revenues for the program through FY2017 (or until July 1, 2018).

*The State met the standards for this criterion.*

2. **State Training Program (1.5)**

Colorado continues to seek out appropriate technical training for the hazardous waste staff. Training opportunities come from such sources as EPA, the Western States Project, ASTSWMO, and industry, but because most Colorado program staff members are very experienced, they tend to seek out their own training interests. Program management supports these efforts through travel and tuition funding.

In 2016, hazardous waste staff attended about 483 hours (or about 60 days) of training. Some of the more significant training events included the following:

- Introduction to and Advanced Environmental Crimes Enforcement Training
- RCRA 2-Day Refresher Training
- Health Equity and Environmental Justice 101
- AHERA Inspector and Health and Safety Annual Refresher Training
- Construction Dewatering & GW Control - Design
- Various IT Classes (Microsoft Excel and Access, Biennial Report Data Collection and Load Process, Cyber Security Training, etc.)
- Various Management trainings (Respectful Workplace, Verbal Judo, Choices to Extraordinary Productivity, Effective Coaching, etc.)
- Various Professional Development trainings (Business Writing, Grammar and Proofreading, Language Services Training, Project Management Workshop, etc.)



## 6.0 E-Enterprise/Exchange Network FY2016 Status and Accomplishments

Category	Item	Goal	Timeline	FY2016 Status
Process Improvement	Process Improvement Activities Implemented	15, depending on need, size and scope of process	September 2017	In Process
Process Modernization	Pilot system in production	Complete	June 2016	Delayed, target December 2016
Process Modernization	Submission types in production	5	June 2016	Delayed, target December 2016
Process Modernization	Submission types in production	15, depending on need, size and scope of process	September 2017	In Process
Data Access-Records Management	System In Production	Complete	December 2015	Complete
Data Access-Records Management	Web Based Access to Records	Complete	June 2016	Complete
Data Access-Records Management	Water Quality Control Division Records In System	Complete	December 2015	Complete
Data Access-Records Management	Air Quality Control Division Records in System	Complete	December 2015	Complete
Data Access-Records Management	Environmental Commissions Records in System	Complete	December 2015	Complete
Data Access-Records Management	Hazardous Materials and Waste Management Division Records in System	Complete	September 2017	In Process
Data Access-Records Management	Division of Environmental Health and Sustainability Records in System	Complete	September 2017	Not Started
Data Access-Dashboards	Base system chosen	Complete	September 2016	Complete
E-Enterprise/Exchange Network Governance	Participation in E-Enterprise/Exchange Network Governance activities, as appropriate.	100%	September 2017	100% Participation
Technology Infrastructure	Future Technology Framework in place	Complete	September 2016	In Process

Data Quality Management	Department Quality Management Plan in place	Complete	December 2015	Submitted
Data Quality Management	Divisions Quality Management Plans in place	Complete	December 2016	In Process

